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BALTIMORE, JULY 29, 1909.

FOR BALTIMORE.

Leadership of Joseph C. Whitney, president of the Merchants & Miners Transportation Co., in organizing a campaign for the strengthening of the commercial relations of Baltimore and the South, together with the aggressiveness shown by the Baltimore Bargain House in taking advantage of the extension to Jacksonville of the service of the Merchants & Miners' Transportation Co., as a dramatic means of fixing upon Baltimore the eyes of thousands of Southern buyers, has done more to advertise Baltimore and its advantages in the South than all the combined efforts during the past five years of organizations which are supposed by their supporters to be efficient agents in promoting the trade growth of the city. There has been much talk of what Baitimore ought to do and of what Baltimore wants, and many individual merchants have maintained persistent canvassing of the Southern field with eminent success. But Jacob Epstein has, single-handed, given an illustration of the methods to be adopted in organized effort for the advancement of Baltimore's trade interests as a whole. Opera non verba is the keynote of the policy to be pursued. And the doing implies that in this day of close competition one must advertise liberally if one would extend his business. Jacob Epstein's advertising in this instance took the form of bringing to Baltimore as guests of the Baltimore Bargain House shiploads of Southern merchants, so that with their own eyes they might perceive the benefits of spending in Baltimore money for their stocks of goods. By the time a thousand merchants have thus been entertained the Baltimore Bargain House will have spent at least \$50,000. But the Manu-FACTURERS' RECORD is sure that as a business-getter no like sum has ever been better spent by any Baltimore con-The immediate profit to the enterprising house is of small moment compared with the benefits that will accrue to it through the ever-widening circles of advertising given it in the South and the consequent ever-swelling stream of business that will come to it. This object lesson should not be lost on While there is a proposi-Baltimore. tion before the business community that \$50,000 be raised annually to advertise the business of the city, an individual business man has spent \$50,000 to advertise his one line of business

In this connection we must congratulate the Baltimore Sun for the excellent work it is doing for Baltimore and the South through the intelligent correspondence of a member of its staff now studying conditions in leading Southern cities. As set forth clearly and fully by him, these conditions merit the careful and practical consideration of Baltimerchants and manufacturers who, if they act upon the suggestions in the correspondence, will benefit themselves, the community and the South. If all the Baltimore daily newspapers should keep in close touch all the time with the South on the lines followed in the special correspondence of The Sun, there would be no possibility of Baltimore's failing to maintain its standing as a distributing center for Southern trade.

GALVESTON EXPORTS.

It looks as though Galveston is to shine out signally as one of the few ports of this country showing increase in exports during a year in which the foreign trade of the world reflected industrial and commercial depression. That Texan port presents some interesting exceptions from the general tale of export trade of the country during the past fiscal year. In exports of domestic merchandise from all ports there was a decrease from \$1,834,786,357 in 1908 to \$1,638,471,433 in 1909, or \$196,314,924, the total in 1909 being less than the total in 1906. Marked decrease in 1909 under 1908, aggregating \$110,572,572, were in breadstuffs, from \$205,350,759 to \$150,653,216, or \$54,697,543; in meat and dairy products, from \$170,498,626 to \$146,280,220, or \$24,218,406; in cotton, from \$437,524,111 to \$417,124,818, or \$20,399,293, and in cattle, sheep and hogs, from \$29,193,385 to \$17,936,055, or \$11.257,330.

At 19 leading ports handling breadstuffs there were decreases with the exception of two, Galveston and San Francisco, and it is suggestive of the trend of movement of breadstuffs to the Gulf that, with New York showing a decrease of \$7,912,096 and Baltimore a decrease of \$9,927,058, Galveston shows an increase from \$13,991,267 to \$14,057,561, or \$66,294, a small one, to be sure, but yet significant. This increase in breadstuffs is not sufficient to overcome the decrease in meat and dairy products and food animals at Galveston, amounting to \$531,520. Galveston being one of 11 ports showing decreases in the total of 14 ports handling such merchandise. But there is more than compensation in the exports of cotton. During the 10 months of the present cotton year, from September to June, inclusive, this country exported 8,279,685 bales of cotton, valued at \$401.793.943, an increase in the number of bales of 1,000,904, but a decrease in value of \$26,043,882. At 17 of the 29 leading ports there were decreases, some of them being \$436,556 at Raltimore \$3.754.056 at Boston, \$14,-540.946 at New York, \$15,627,597 at New Orleans, \$8,512,676 at Savannah and \$9,980,200 at Wilmington. these decreases the increases were comparatively slight at all the other 12 ports with the exception of Galveston, where the increase was \$22,557,406. The value of all domestic merchandise exported from Galveston in the fiscal year 1908 was \$161.020,933. The three leading items in the export trade show this year a total at Galveston of \$169,-277,184, an increase of more than \$8,000,000.

A BIG GOVERNMENT JOB.

Mr. B. N. Baker of Baltimore, an expert in transportation, who, until it was absorbed by the International Mercantile Marine, was president of the Atlantic Transport Line, one of the greatest of our ocean-carrying concerns, has recently made a thorough study of traffic conditions across the Isthmus of Panama, and presents elsewhere in this issue of the Manufacturers' Record some remarkable facts showing that American importers have to paygreater freight rates than those paid by English. French and German importers on goods handled by the Panama Steamship Co. and the Panama Railroad Co., both owned by the United States Government.

Mr. Baker suggests that it is useless to discuss the duty on hides while a railroad and steamship line owned and operated by the Government charges American importers of hides very much higher rates than they charge European buyers of hides. After giving in detail the rate of freights across the Isthmus of Panama and to Europe and New York, Mr. Baker says:

"An American importer pays the Panama Railroad Co., owned and operated by the United States Government, \$2.50 a ton more, if from Central America, and pays the Pacific Coast Steamship Co. \$3.60 a ton more on hides than an English, French or German importer pays," and this, too, notwithstanding the fact that the distance from Colon to New York is 1981 miles, while the distance from Colon to Liverpool is 4962 miles, and from Colon to Hamburg 4992 miles. Comment is almost superfluous. How many other lines of industry are handicapped in the same way by exorbitant charges over the Government-owned railroad and steamship company which gives European merchants great advantages over their American competitors?

Mr. Baker's facts are not less than startling in their significance.

Is it not about time for the United States Government to investigate itself?

BALTIMORE AND FREE IRON ORE.

By telegram the conferees on the tariff at Washington have been informed of the hope that removing the duty from imported iron ore will benefit the export grain trade at Baltimore. When the hope was expressed two months ago the Manufacturers' Record showed its fallacy by a comparison of the importations of iron ore and the tonnage of vessels cleared at Baltimore. The comparison may be worth repeat-Between the fiscal years 1906 and 1907 the importations of iron ore at Baltimore fell from 625,300 tons to 576, 747 tons, or by 7.7 per cent., but the tonnage of vessels cleared with cargoes fell only from 1,473,393 to 1,384,362, or by 6.1 per cent., and between 1907 and 1908 the importations of iron ore fell from 576,747 tons to 432,986 tons, or by 24.9 per cent., but the tonnage of vessels cleared with cargoes fell only from 1.384,362 to 1.368,303, or by 1.1 per cent. Between 1906 and 1908 the tonnage of iron ore imported fell from 625,300 to 432,986, or by 30.7 per cent., while the tonnage of vessels cleared with cargoes fell only from 1.473,393 to 1.368,303, or by 7.1 per cent. These figures do not seem to offer any ground for hope that more importations, superinduced by freedom from duty, would increase the facilities for foreign trade at Baltimore. The figures, showing a diminution in ore importations at a greater rate than the diminution in the aggregate tonnage of vessels carrying cargoes from Baltimore, indicate very little, if any, interdependence between importations of iron ore and the export trade in grain or any other article at Baltimore.

The tariff conferees should demand facts showing how many of the vessels bringing iron ore from Cuba, Spain and South American ports to Baltimore have carried from Baltimore cargoes of any kind to other ports.

There is another phase of the question of Baltimore and free iron ore which some folks in Baltimore, under the weight of primary self-interested suggestion, seem to be overlooking. Baltimore is just at present stirring for closer industrial and commercial relations with the South. There are parts of the South with vast deposits of iron ore to be sold and manufactured. The admission to this country free of duty of foreign iron ores will be a direct blow to the iron industry of the South, and if the South understood that the special pleas from Baltimore for free iron ore represent the attitude of Balttmore generally, which would be a mistake, the South might not be enthusiastic about closer business relations with Baltimore. Illustrative of well-balanced opinion in the South are telegrams

which have been sent to the President from the Birmingham district, following the publication there of a telegram from the Manufacturers' Record urging the President to consider the South in his survey of tariff necessities. One telegram read:

Protection on iron and iron ore made possible investments of \$100,000,000 in iron indus stry in Alabama. Free iron ore would not only seriously jeopardize this investment already made, but would prevent further investment now in sight. Our ores are low grade, and, owing to our geographical position, entail-ing heaviest freight rates in country, we could not compete with manufacturers situ-ated on seaboard and using foreign ores mined with cheap labor and carrying low ocean freight rates. This district feels it must have duty on ore.

This telegram was signed by G. M. Cruikshank, editor of the Birmingham Ledger; Rufus N. Rhodes, editor of the Birmingham News; W. H. Hassenger, president of the Southern Iron & Steel Co.: Guy R. Johnson, vice-president of the Alabama Consolidated Coal & Iron Co.; J. W. McQueen, vice-president of Sloss-Sheffield Company; C. E. Foust, president Birmingham Car & Manufacturing Co.: Erskine Ramsey, J. W. Farrior, Tyler Grocery Co., Collins & Co., Moore & Handley Hardware Co., Wimberly & Thomas Hardware Co., and many other prominent men and firms. Another telegram from T. G. Bush read:

I believe free ore and free coal would pro-duce inequalities in the tariff that would discriminate greatly against Southern in-

A third telegram, from Chas, A. Stillman of Rogers, Brown & Co. read:

I believe that any further reduction in Senate tariff schedule on ore, coal and scrap iron would be harmful to the iron and coal stry and especially burtful to this dis-

This last telegram touched upon a schedule, that relating to scrap iron, which has not been brought prominently to the front. It suggests that free scrap iron or a marked reduction of duty upon scrap iron would probably cause pig iron to disappear from import records, though more pig iron than ever would be imported, to the detriment of American pig-iron producers.

There is much in that for Baltimore to consider.

A COTTON CHANCE.

Luther Burbank has been requested by the Georgia Legislature to include the cotton plant in his experiments. The expectation seems to be that the Californian who has accomplished such wonders in the breeding of other plants may produce a cotton of a longer and more even fiber than that now generally raised in the South. Success at that would vastly increase the value of the South's cotton crop, but it is hoped that the resolution may direct Luther Burbank's attention to a chance as to cotton which, if seized, would, it is believed, work a revolution greater even than that which followed the invention of the mechanical wheat reaper. Nature marked out this chance four of five years ago in Northern Texas when November frost first nipped the tops of growing cotton plants and then later ended the growth of the plant before the bolls had completely opened. As was pointed out at the time by the Man-UFACTURERS' RECORD, the nipping of the tops of the plant seemed to hasten the development of the bolls already formed, and when these were put through a threshing machine modified slightly the results were so satisfactory that cotton plants that otherwise would have been neglected added about \$2,000,- | Owing to the primitive character of the

000 to the total value of the crop of that vear.

Ever since then we have endeavored to interest the agricultural experiment stations in the several cotton States to elaborate upon nature's nipping of the cotton plants for the purpose of discovering whether the cotton plant may not be so treated mechanically as to insure a simultaneous ripening of practically all its bolls. Such a mechanical treatment, the character of which might be determined by nipping cotton plants at different stages of growth, would necessarily tend to reduce to some extent the number of bolls on each plant, though it might improve the quality of the remaining ones. But the loss in number, even though there might be no improvement in quality, would, if the experiment should work out according to this conception, be far more than made up by the tremendous economies made possible in the harvesting of the crop. These economies would permit a wider area of cotton cultivation and such a diminution in the cost of making the crop that it could be sold at lower prices than those prevailing and still yield larger profits than at present to the growers.

The economies in handling involve the invention of the thresher gin and the cotton reaper. These inventions mean the real picking of cotton away from the fields. All of the experimental cotton pickers cling to the idea of picking the cotton in the fields. It may be possible that the picker which is to revolutionize the cotton-growing industry will handle indoors the whole cotton plant reaped by a machine which will be a modification of the wheat-reaping machine, such a picker to be a modified combination of the threshing machine and the gin. At least the chances for success justify a closer study of the situation than has been given to it.

FIFTY YEARS OF STREET CARS.

The United Railways & Electric Co. of Baltimore has just celebrated the fiftieth anniversary of the beginning of street-railway service in the city. was on July 26, 1859, that the first horse car was operated in Baltimore, only one car being run that day upon about a mile and a half of track. Now the company has 750 cars daily operated and over 400 miles of track, the present organization, which is a monopoly, representing the consolidation of a number of companies which followed the beginning of 50 years ago Where there were then only one conductor and one driver there are now 4500 men employed, and the character of vehicle used has grown from the slow, uncomfortable horse car to the large double-truck high-speed electric car, equipped with electric lights and bells, and some with electric whistles and specially powerful lights for use in suburban districts.

Baltimore was always a progressive city in matters relating to railroads, and as the history of steam lines shows that the beginning of many improve ments was at Baltimore, so the record of street-railway development discloses numerous progressive steps in this city. It is true that Baltimore was long content with horse cars, but it was one of the first cities in the country to witness the operation of an electric railway for regular service. This was the line running from a point in the Northern Annex to Hampden and Woodberry, and it was run successfully and continuously for a year or two in the '80s.

equipment it was difficult to operate, and was replaced by horse cars, which continued until the introduction of modern electric service. But it cannot be claimed that Baltimore was anything like a pioneer in the use of cable roads. It was not until the spring of 1891 that the first cable line was put in operation in Baltimore, and while several roads were so equipped, the rapid perfection of electric railways prevented extensive adoption of the cable system, and it was not long before the cable railways were replaced by electric lines

Yet, long before electric cars were thought of Baltimore took steps to investigate proposed faster methods of operating street railways, looking to relief from the slow horse-car cervice. A steam motor was tried, the exhaust being muffled so as to avoid frightening horses, but the tracks then used, being merely flat rails spiked to stringers. were not fit for rapid transit, and even if the steam motor with its trail car had met approval, the permanent way could not have long stood the wear and tear of such equipment. That was in the '70s, and people had to wait for 10 years before they saw the first rays of dawn of the electric railway in the form of the line to Hampden and Woodberry.

In commemorating the birth of streetrailway service in Baltimore the United Railways & Electric Co. kept open house at its various parks as well as on its lines, its employes and their families being the guests of the day. It was made a gala occasion, one which was enjoyed to the full, the weather being fair and pleasant, although it was midsummer. Thousands participated in the celebration, and the equipment and buildings of the company were appropriately decorated. Although an extraordinarily large number of passengers were carried, all were handled without accident, testifying to the excellence of the company's organization and the perfection of modern electric-railway service.

The officers of the company have much to be proud of in contemplating the great organization which they direct and control. It is one of the best of its kind to be found anywhere, and men who are capable of accurately estimating its efficiency-as, for instance, managers of various forms of large public amusements-have approved of its capable methods of handling crowds of passengers within a limited time in unstinted terms of praise. Not only have such capable judges granted it hearty commendation, but not a few individuals of the general public—that hardest of critics-have also spoken in high terms of its efficiency. It is no more than just to note these facts in concluding these words relative to street-railway progress in Baltimore.

IMPETUS FOR THE SOUTH.

Chas. E. Speer & Co., real estate, Memphis, Tenn., referring to the fact that for a year he has been a constant reader of the MANUFACTURERS' RECORD, writes:

The benefits I have derived are incalcula ble, and so it must be to every intelligent person who reads it. Today I am posted on every industrial movement in the South, re-gardless of what the movement may be, and to be deprived of your publication would be

me next to a calamity.

me thing in particular regarding yer is that what is printed is authen omparisons made by me bear out this state-Your paper is for the South, and the South is prospering and developing throi its columns. Your article of June 17, titled "Sunrise in the South," is a wonder is a wonderful recapitulation of facts, and I wish it were possible to have every young man in our South read this article.

To read your paper is like hearing, an in-

teresting lecture, and I trust it has awak ened in others of the South, as it has in me, a keen interest in the South's welfare and development. That the South is awakening is no idle fancy. Our people are becoming restive. They are beginning to realize the South's great resources, and instead of being content to sit idly by and be satisfied in following the pursuits of their fathers. tollowing the pursuits of their fathers, which was mostly that of planters, professional men, cotton factors, grocers and bankers, they are now anxious to learn other pursuits of life, which means manufacturing, scientific farming and developing at home that which has heretofore been taken from the South and manufactured elsewhere, all ecause we knew not how. To do a thing we must first learn how it is done, and this we must first learn how it is done, and this we are doing. Our young men are becoming restive; they want to learn, and with the true American spirit they are learning. It is not a far-fetched point to make when I say the time is not far distant when the young men of the South will lead the world as experts in every line, whether it be the manufacturing of shoes, cotton into cloth. manufacturing of shoes, cotton into cloth, fled farming, building of railroads, iron into steel, or whatever else taken in the raw from our South. We want to learn; we have the inclination, we have the brains, and we are ng. Can anything but success overtake Thanks to the Manufacturers' Record for the start.

VIRGINIA HIGHWAYS.

In all but ten of the one hundred counties of Virginia highway improvement is under way under the provisions of law dividing \$250,000 from the State treasury among the counties in proportion to the taxes paid by them, conditioned upon the counties appropriating to the purpose a like amount. The improvements include the building of first-class roads and the throwing of bridges across the streams. The present movement for improved highways dates from the session of the General Assembly of 1906, and now already 130 miles of roads have been constructed. 193 miles more are contracted for or in process of building, and plans have been made to begin in a short time work upon 136 miles more. Moreover. surveys have been made for 141 more miles, and applications are pending for surveys of 138 more miles of roads. The new law permits a county to use the money apportioned to it from the State treasury in payment of interest on bonds or the liquidation of such indebtedness for good roads, and under that provision \$960,000 of bonds have already been issued.

These facts of gratifying progress are derived from an article published on another page of this week's issue of the MANUFACTURERS' RECORD, in which Gov. Claude A. Swanson discusses clearly the great future for Virginia through the construction of good roads. The survey he presents reveals enthusiastic interest of local authorities and citizens generally in highway improvement and alertness on their part to its social and economic value. His article will certainly inspire his State to greater activ-Ity and ought to give an impetus to the movement in the whole South.

WHAT A SMALL AD. DID.

Ben. A. Morton, president and general manager the H. T. Hackney Coal Co., Knoxville, Tenn., in a letter to the MANUFACTURERS' RECORD, referring to the small advertisement he had in one issue of this paper, writes:

I will not want to run the ad. any ecause the one insertion brought a flood of because the one insertion brought a flood of inquiries. It was truly remarkable the large number of inquiries the ad. brought forth, especially in view of the fact that it was only a few words and placed with a large amount of other advertising in your "For Sale" columns, and proves to me that your advertisements are carefully considered by the buying public.

INCREASING PRODUCTIVITY OF AMERICAN SOIL.

The value of farm products in the census years 1880, 1890 and 1900 and for several recent years was as follows:

1880	\$2,212,000,000
1890	2,466,000,000
1900	
129760	
1906	
1907	m 000 000 000
1908	0.000,000,000
1909 (estimated)	8,300,000,000

The striking fact in this table is the small increase in the value of farm products between 1880 and 1890. In that 10-year period, notwithstanding the great increase in production, there was a gain of only \$250,000,000, or a total increase in 10 years of less than 10 per cent. In the next six years, from 1890 to 1896, there was very little increase in value, although the production still continued very heavy, but between 1896 and 1900 there was a very rapid gain in values, bringing the total for 1900 up to \$4,717,000,000, or nearly double the value of the output of 1890. Since 1900 this gain has continued unabated, every year showing a large advance over the preceding year. It is quite possible, based on present prospects, for the total value of agricultural products for 1909 to run \$400,000,000 or \$500,000,000 over the total of 1908 and give an aggregate of, say, \$8,300,000,000.

Under these conditions one is not surprised that the farming interests of America are enjoying a greater degree of prosperity than ever known before.

American farmers are proving that they have much more sense than some leading public men have been willing to credit them with. The pessimistic cry heard throughout the land for several years that the farmers are destroying the fertility of the soil, and that the average yield per acre of leading crops is decreasing is one of the things that would come under the head of being interesting if true. It is not, however, true. Therefore, it is of interest only as proving how deeply a false impression persisted in can sink into the public mind. The average man believes that our yield of leading staples is gradually decreasing. He believes that the fertility of our soil is being destroyed. Had he not been told these things by men accepted as authorities? It is not his place, he thinks, to investigate, and possibly he has neither the time nor the facilities. He accepts what others have said, and knows not that these statements are not founded on fact. The men who have made such statements have not wilfully misrepresented the case; they have simply failed to thoroughly investigate the matter. Some of them have taken the average yield per acre of crops in a year of bountiful harvests and compared this with the average yield in a lean year, and have based their conclusions on such misleading figures as these. Hence their error.

It is said of a once-noted orator that when charged with not sticking to facts he replied, "Facts embarrass me." Even if he said this he had more to his credit than many speakers and orators of today, for facts never seem to embarrass them. If facts are contrary to their theories, so much the worse for facts. They stick to their theories regardless of facts. They are unlike the noted scientist Agassiz, who, according to the story, once denied the possibility of a certain hind of fish attaining a certain weight in the rivers of Maine. Scientific investigation, he said, had proved the impossibility of that fish growing to the size mentioned by his senatorial friend. His theory was, in his opinion, all right. A few months afterward, however, he received from his fishing friend a fish of that particular size with convincing testimony that it was caught in the waters of Maine. In reply, according to the story as told, he telegraphed, "One fact has 'nocked out a bushel of theories." In these days one theory often knocks out a bashel of facts. This is especially true in some of the discussions regarding conservation with which the country has been flooded during the last 12 months. and is pre-eminently true in regard to many of the elaborate articles written and public addresses made within the last year or two to prove that there has been a great decrease in the average production of grain, due to bad farming and the deterioration of our soil. Based on this theory many lugubrious pictures have been drawn of the wreck and ruin of American civilization because of the destruction of our soil and the inability of the country to increase its output of foodstuffs sufficient to meet the needs of the coming years. It is quite probable that we shall not continue to export wheat as heavily as we did some years ago, but if we can find a profitable market at home for all the wheat that American farmers raise, why should they be concerned, or, for that matter, why should the country be concerned because of our failure to export wheat if we can more profitably consume it at home. For many years American farmers exported their wheat at little or no profit, the selling price being scarcely equal to the cost of To the theorist that may have indicated prosperity, but to the grower of wheat it spelled poverty.

That our production of wheat per acre is very much less than the average production in France and England is a fact that is known to everyone. That we have not been forced by conditions running over a thousand years, with dense population making every acre exceedingly costly, to develop the intensive system of farming prevailing in those countries is likewise known. And the reasons for it are perfectly logical. When the rush of immigration to our country at the opening up of the great prairies of the West brought about the enormous increase in grain production, it was only natural that the land should be overcropped and result in a decrease of the virgin fertility of those days. The pioneer building his rude log hut, striving to make enough to pay for his improvements and care for his family, was compelled to get the largest possible immediate results out of his land. No sensible man studying the situation could expect otherwise. And so under these conditions, as the limit of new territory to be opened up was reached, it was found that there was a gradual decrease for some years in the average yield of crops per acre. But 15 or 20 years ago a change took place, and the pessimists are still reasoning on the facts that existed at that time, and not on the things that have taken place in the last two decades. When the pioneer had been able to accumulate a little money and build a better home be naturally turned to the improvement of his land. About that time the work of the agricultural colleges throughout the country awakened a widespread interest in the improvement of the soil. For 15 or 20 years thousands of plodding men of science in agricultural colleges, and those taught in these colleges, have been at

work, the one teaching and the other practicing the best methods of soil restoration. When they had won out and the farmers of the land were showing a steady improvement in their average production per acre, the much-heralded conservation orators rushed to the front with their tales of destruction of soil based on ralse theories, and without any knowledge of what had been going on during the last 15 years or more.

Instead of the yield of crops decreasing, there is, on the contrary, a steady increase in the average yield per acre. Instead of a declining fertility of our soil, there is a very marked increase in its fertility. In place of the barren hill-sides that were being washed away 10 or 15 years ago, terracing has become quite general, and tens of thousands of acres which then were worthless, cut by great gullies, an eyesore to the traveler and a hopeless, useless piece of property apparently to the owner, are now producing profitable crops. These same hill-sides have been terraced, the soil has been restored to fertility, and even more has become more valuable than before the first timber was cut from it, for under this new system it has been proven that it can be made perpetually to yield large crops.

In making a study of agricultural conditions it should be borne in mind that a comparison between a full year and a lean year counts for nothing. This is a false basis on which to predicate an argument. If we would find a right basis for our calculations it is necessary to take the average of five or ten-year periods. Only in this way can an intelligent comparison, one worth considering, be obtained. On this basis let us examine the average production of grain per acre in 10-year periods:

	1869-78.	1879-88.	1889-98.	1899-1908.
Corn	. 26.5	24.2	24.4	25.8
Wheat	. 12.2	12.1	13.2	13.8
Oats	98.5	96.6	95 8	90.3

These figures strikingly illustrate the point previously made, namely, that after the opening up of the prairie country there came a gradual decrease in the average yield per acre, but that this period passed away with the development of scientific farming methods under the lead of agricultural colleges some years ago. It will be noted that in the production of corn, wheat and oats there was a decrease in the average yield of the 10-year period of 1869-78 to the 10-year period of 1879-88. Corn decreased on the average of 2.3 bushels per acre, wheat a fraction of a bushel per acre, and oats nearly two bushels per acre. next 10-year period there was a slight improvement in corn, a gain of over one bushel average per acre in wheat, but a decrease in oats. Thus 10 years ago the tide had been turned and the figures were moving for improvement. In the last 10 years there has been a still further gain. Corn in that period showed an advance of 1.4 bushels per acre over the preceding 10-year period, while wheat showed a gain of .6 bushels per acre over the preceding decade, and a gain of 1.7 bushels per acre over the period between 1879-88. The average production of wheat for the 10 years ending with 1908 was the largest in any 10-year period for 40 years. And yet we have been told over and over again that the wheat production of the country per acre was steadily declining. In the same 10-year period ending with 1908 oats showed likewise the largest yield per acre in the four 10-year periods under discussion.

It will be of interest to make a comparison along similar lines in the central wheat and corn belt of the West, especially in the older States, where wheat and corn cultivation have passed through the three stages of overcropping, of soil improvement and of a gradual restoration of fertility and increased yield per acre. Take, for instance, wheat in the same 10-year periods:

Wheat, Average Yield per Acre, Bushels.

	1869-78.	1879-88.	1889-98.	1899-1908
Ohlo		13.9	14.7	15.9
Indiana	12.3	13.5	13.9	14.1
Illinols	12.1	13.6	13.7	14.9
Minnesota	14.4	19.9	14.4	19.42

In these figures it is shown that Ohio is now producing a much larger yield of wheat per acre than it did 40 years ago, the gain in the last 10-year period being 2.4 bushels per acre as compared with the period of 1869-78. In these four 10-year periods there has been a gradual but steady advancee. The same thing is true in Indiana and in Illinois. Indiana has advanced its wheat production from an average of 12.3 bushels per acre in the 10-year period 1869-78 gradually to 13.5 bushels in the next 10-year period, then to 13.9 bushels, and then in the last 10-year period to 14.1 bushels. Illinois has kept even pace with Ohio and Indiana, and in not a single 10-year period was there a decrease, but, on the contrary, a steady gain, so that in the last period there was an increase In the average production per acre compared with the first period of over 20 per ent. Minnesota is the only exception in the four States. Starting in 1869-78 with an average yield per acre of 14.4 bushels, there was a drop to 12.2, and from that an advance to 14.4, and then another drop, showing that Minnesota has not yet reached the stage of steady, sure soil improvement of Ohio, Indiana and Illinois. This is not surprising. Minnesota was settled later than the other States. The fertility of its soil was overtaxed, and it has not yet developed the ntensive system of farming and soil improvement to the same extent as the others, and therefore it is an exception to these States and an exception to the country as a whole. Doubtless the decline in this one State has been the reason for some of the statements that have been put forth regarding the alleged decrease throughout the country.

Turning from wheat to corn and it is seen that the same general conditions in these individual States have prevailed.

Corn, Average Yield per Acre, Bushels.

	1869-78.	1879-88.	1889-98	1899,1908
Ohio	. 35.3	31.4	30.8	25.3
Indiana	. 31.3	29.3	30.4	34.4
Illino(s	. 28.5	27.	31.4	34.5
Minnesota	. 31.9	30.1	27.6	28.3

In Ohio there was a decline in corn production from the 35.3 bushels as the average yield per acre for the 10 years ending with 1878 down to 30.8 bushels for the decade ending with 1898. From this, however, there was a rapid gain, and during the next 10 years the average rose to be exactly the same as in the 3rst period. In Indiana there was a similar decline and a similar advance, but in this State the average for the last 10-year period was 3.1 bushels higher than in any 10-year period of the preceding 30 years. In Illinois a decline took place

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between the 10-year period of 1869-78, but a turn commenced in the period 1889-98 for an upward movement, steadily increasing until in the last 10-year period the average was 6 bushels higher than in the first 10-year period, thus showing, taking the whole 40-year period, that the loss during the earlier period had been regained and a much higher standard set. In Minnesota there steady decline from 1869-78 period to 1889-98 period, but in the next 10-year period there was an upward movement, showing that in corn that State is beginning to share with adjacent States in the better cultivation and increasing fertil-

Between 1870 and 1890 agricultural products increased in quantity more rapidly than population. In one or two instances particular years would show a tendency to a decrease, but as a whole that 20-year period marked a large expansion of agricultural output beyond the increase in population. In 1870 the number of cattle per capita was .39. This rose by 1880 to .42, and by 1890 to .59. In swine there was an increase from .69 in 1870 to .82 in 1890. The production of wheat in 1870 was on the basis of 6 bushels per capita, and in 1880 it rose rapidly to 9.9 bushels per capita.

Under this steady increase in the aggregate volume of agricultural output, including cattle and swine, there was a very marked tendency to a decrease in the price of farm products. This reached a culminating low-price period between 1890 and 1895. With the great increase in production there came a steady decrease in value, and the farmers of the country were growing steadily poorer. It was due to this condition that free-silver agitation found favor in the agricultural districts. The farmers knew that they were raising great crops, but that the larger the crops the poorer they became. Under these conditions there was a continuation of the rush from country life to city activities, and a growth of industrial interests furnished a market for surplus labor, and thus increased the consumptive requirements of the country. Gradually year by year increasing consumption gained on the production of agriculture. The inevitable result was higher prices for farm products. As the farmers had grown poorer for 10 years up to 1894-5 under increased production and decreased prices, so in the last 10 years they have grown steadily richer under decreased production per capita and increased prices. Within the last five or six years high prices for farm products have again developed a tendency to a large farm output, and in 1908 the number of cattle, sheep and swine in proportion to population, and the production of corn and wheat in proportion to population, were much larger than in

But the proportion per capita of cattle, sheep and swine is still considerably less than in 1890. Comparing the three years of 1890, 1900 and 1908, we have the following:

Number of Cattle Raised and Amount of Grain Production Per Capita.

	1890.	1900.	1908.
Cattle, number	.59	.36	.57
Sheep, number	.70	.55	.62
Swine, number	.82	.48	.64
Corn, bushels	23.8	27.5	30.6
Wheat, bushels	6.3	6.8	7.6
Oats, bushels	8.3	10.6	9.9

These figures show that the number of live-stock in the country in proportion to the total population was a little less of cattle in 1908 than 1890, and was much less of sheep and swine. In corn there has been a steady gain in production per capita since 1890, rising from 23.8 bushels in that year to 30.6 bushels in 1908, but the production per capita in that year was still less than in 1880, when it was 34.2 bushels. In wheat the average per capita production of 6.3 bushels in 1890 rose to 6.8 bushels in 1900, and to 7.6 bushels in 1908. But notwithstanding this steady gain during the last 18 years, the production per capita is less than in 1880, a year of phenomenal yield. In this discussion no account is taken of foreigu exports of meats or of breadstuffs. The figures presented are given simply to show that as an outcome of the large increase in farm products up to 1890. and for a year or two thereafter, there was a large decrease in their value, while after that period there was a decreased output in proportion to population, and then there came an increase in price, which is again resulting in a gradual but steady gain in the number of live-stock and in the output of grain in proportion to the population. This, however, has not yet run far enough to indicate any likelihood of an early decline in the price of farm products. It would seem that we are still in a period of high prices, for the vast expansion of industrial activities and the prosperity created thereby has made a marked increase in the consumption of foodstuffs per capita. People are eating more meat and more bread than in days of poverty. Moreover, there is another factor that has some bearing on the situation. Within the last 15 or 20 years there has been a marvelous increase in hotel life in this country. The wastage in hotels aggregates an enormous total. There is scarcely a notel in the land in which there is not enough food thrown away to supply more people than the total number of guests fed. This comes as a result of our methods of living, of the wasteful handling of food in hotels, and it must have more or less bearing upon the aggregate consumption of foodstuffs far beyond any estimate that has ever been made public.

It is interesting to compare in a number of years the total population and number of cattle, sheep and swine in the country. The figures are as follows:

Years, 1870	Population.	Cattle,	Sheep.	Swine.
1870	. 38,558,371	15,388,500	40,853,000	26,751,400
1875		16,313,400	33,783,600	28,062,200
1880	. 50,155,783	21,231,000	40,765,900	34,034,100
1885		29,866,573	50,360,243	45,142,657
1890	. 62,622,250	36,849,024	44,336,072	51,602,780
1895		34,364,216	42,294,064	44,165,716
1900		27,610,054	41,883,065	37,079,356
1905		43,669,443	45,170,423	47,320,511
1908	. 87,189,392	50,073,000	54,631,000	56,084,000

These figures show that in 1890 we had 36,849,000 cattle in the country, and that from this high aggregate there was a steady decline to 27,610,000 in 1900. Though our population increased in that time nearly 14,000,000, there was a decrease of over 9,000,000 in the number of cattle. The high period in the number of sheep was in 1885, with 50,360,000, from which there was a steady decrease to 1900, when we had nearly 9,000,000 sheep less than in 1885, though in that period our population had gained 20,000,000. The high point in swine production was in 1890, prior to late years, with a total of 51,602,000, from which there was a decrease to 1900, when the number was 37,000,000, a loss of 14,500,000, notwith raw materials, such as iron ore, coal, with three times as much coal as Great

standing the great gain in population. It will be noted from the foregoing table that in 1908 cattle, sheep and swine had all again attained record numbers.

In connection with a study of grain production as indicating the increased fertility of the soil of the country at large, a similar study of cotton production shows that the South has likewise been making similar improvement in fertility. Comparing 1887 and 1888 with 1907 and 1908, we have the following table:

Average Production Per Acre in	Par	18 Of L	sales.		
	-	-Year	rs.	~Ye	ars.
States.	1	887.	1888.	1907.	1908.
Alabama		.28	.29	.34	.32
Arkansas		.49	.50	.43	.39
Florida		.25	.27	.22	.21
Georgia		.30	.34	.35	.40
Louisiana		48	.49	.55	.39
Mississippi		36	.43	.44	.46
North Carolina		.33	.42	.46	.47
South Carolina		31.	.36	.38	.49
Tennessee		38	.36	.37	.38
Texas		36	.34	.44	.23
United States		.35	.32	.42	.36

This table shows that the largest improvement per acre was in the older States. The highest average yield per acre in 1908 was .49 bale per acre in South Carolina, against .36 in 1888; in 1907 South Carolina had an average of .38 bale per acre, against .31 in 1887. North Carolina was next to South Carolina in 1908. It had a yield of .47 and .46 in 1908 and 1907, against .33 and .42 in 1887 and 1888, respectively. In Arkansas the high production due to opening up of new land in 1887 and 1888 was not maintained in 1907 and 1908. Texas made a gain in 1907 as compared with 1887 and 1888, but adverse weather conditions produced a serious decline in 1908. That, however, did not in any way indicate a decline in fertility of soil. The average yield for the entire country was .35 in 1887 and .32 in 1888 whereas in 1907 the average was .42, or seven points above that of 1887, and 1908 was .36, or four points above that of 1888. The average production for the two years 1887 and 1888 was .369, while the average production for the two years 1907 and 1908 was .391 bale per acre, showing a general tendency to a higher average yield of cotton per acre of recent years as compared with 20 years ago, just as has been the case in the production of grain in the central West and of the country at large.

Agricultural conditions are steadily improving throughout the land. Farming is being done on a more scientific basis than ever before. Every year shows an advance. We now find that better agricultural implements, better methods of handling the soil, more intelligent diversification of crops and a better system of rotation in order to improve the soil.

All these things have been under way for the last 15 years, and great as has been the industrial advance of the country, it has been very nearly matched by the marvelous change in agriculture. From deep poverty, loaded with debts, almost in despair, as the farmers of all sections were from 1890 to 1895, abounding prosperity has blessed the farmers of the land. Farm mortgages have been paid not by millions only, but by hundreds of millions of dollars. Scientific farming, scientific breeding of live-stock, a lifting of the whole farming business out of the ruts of the primitive pioneer days is the order of the day. Restoration of soil has been going on steadily, and the farmer needed not to be told by the Conservation Congress how to accomplish this. He had already been vigorously practicing it for 15 or 20 years. The conservation orators were just 15 years behind the times, and their arguments were based on theories, not on facts, or rather their theories and their facts were 15 years out of date. They knew not whereof they spoke. But fickle human history will be so written as to give to them the credit for this improvement, which the steady workers in agricultural colleges and the practical farmers had already accomplished.

Brilliant as is the outlook for the industrial interests of the United States. marvelous as will be the expansion in commerce and in manufactures, equally promising is the outlook for the farmer. With the restoration of fertility to overcropped soil, with the giving of fertility to soil never before fertile, with the reclamation of millions of acres of the richest land in the world from overflowed prairies and swamps, with the irrigation of millions of acres of land which need but an inflow of water to blossom as a garden, the potentialities in agricultural production match the potentialities in manufactures. We have reached a period in American life where the farmers, like the manufacturers, are beginning to do business on a scientific basis, and where the profit, by reason of better methods of producing, of handling and of selling, will give them a greater prosperity than they have ever known in the past.

A TARIFF TELEGRAM.

Baltimore, July 22, 1909.

To The President. Washington, D. C.:

If it be true, as claimed by many papers, that you are seeking to influence tariff legislation in favor of free iron ore, coal, lumber, etc., I beg to suggest the following for your consideration:

The South, so long handicapped by the financial difficulties following the War and by adverse legislation, has in recent years, under the existing tariff policy, been making great industrial progress. Its prosperity is now seriously threatened by tariff legislation. It asks for no favors not granted to other sections, but it earnestly protests at being sacrificed for the benefit of special interests in other sections. It is a producer of things erroneously called

lumber, etc. To the miners of ore and coal and the timber men their output is as much the product of labor as is the steel rail or the watch spring. The South has a right to ask that what it produces should receive the same measure of protection as given to the products of other sections. There is as much reason for making free textile machinery for the benefit of Southern cotton mills, free steel rails for the benefit of railroads, as there is for making free iron ore for the benefit of the rail mills and the textile-machinery builders. Does not fairness to all sections and to all people of the United States demand equality in protection, that one section should not be sacrificed to enrich special interests in others?

With vast stores of ore reaching into billions of tons awaiting utilization;

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Britain, Germany and France available for development; with nearly one-half of the standing timber in the United States, the South has resources enough for an industrial development greater than that of the whole country today to its own enrichment and to the enrichment of the entire land. But of what avail are these treasures, of what value to the South or to the country at large if unutilized, and if their further development is to be halted by the free importation of such materials mined or manufactured by labor receiving only a pittance compared with the wages paid in this country? If the South is forced by adverse tariff legislation to meet this pauper labor of foreign competition, it can only do so by forcing down the prices of its own labor to the almost starvation wages of foreign ore and coal

Under the drawback provision of the tariff such so-called raw materials as enter into the manufacture of goods exported have been admitted virtually free of duty. That drawback has been an injustice to producers of such material in this country, but that injustice is as nothing compared with the injustice of admitting free of duty these socalled raw materials while maintaining duties upon the products in the manufacture of which they are used. Justice demands that either a protective tariff should protect all, or else that there should be no protective tariff.

> RICHARD H. EDMONDS. Editor Manufacturers' Record.

GALVESTON, THE OPTIMIST.

In reply to a message of congratulation upon the escape of Galveston from disaster, Mayor Lewis Fisher telegraphed the Manufacturers' Record as

for your kind message. Our seawall has stood a severe test and its efficiency and stability is thoroughly demonstrated. Com-

To the people of the country the following message was sent:

The city of Galveston sends greetings to her sister cities, the people of the United States and of the world, in that at this hour it has just passed through a most for-midable storm, manifesting in its course some of the most violent incidents of cy clonic disturbances, and its great seawall has completely vindicated its efficiency and protected the city against dangers from the sea, leaving such insignificant damages as

sea, feaving such insignment countries and are incident to all storms.

The city's great business interests and its people have safely passed through a most severe hurricane. The seawall proved a severe hurricane. The seawall proved a complete success; the city's great wharves and shipping interests suffered no damage, and not a life was lost on the Island.

LEWIS FISHER, MACO STEWART, President Security Building Co. M. E. KLEBERG, City Attorney.
V. E. Austin, Commissioner of Streets.

E. O. Flood,
President of the Chamber of Commerce.
B. ADOUE, President of the Maritime Association.

Sensational reports last week more than justified this greeting. The magnificent courage shown by the people of Galveston at the time of its overwhelming in 1900 made an impression upon the country that can never be obliterated. It aroused more than usual interest in the fortunes of that Gulf port and in the work of its rehabilitation. Great relief was felt when it was known that the engineering problems for its protection had worked out through a strenuous test. On another page of this in order that sheep-raising might be devel- of the present season was 13,430,867 Wu-Ting-Fang is alive and active,

issue of the Manufacturers' Record Albert Phenis describes in entertaining manner the means which protected Galveston and sketches the possibilities in the future of the city.

W. B. Michael, superintendent of the Dover (N. J.) works of the Fitz-Hugh-Luther Company, railway equipment, New York city, writes to the MANUFAC-TURERS' RECORD:

We fully appreciate your publication, as it

voters who owned sheep or wanted to own them and voters largely outnumbering the others, whose live-stock consisted principally of curs. It is obvious that under the circumstances cur owners were able to prevent legislation in behalf of sheep owners. But the opposition is likely to be divided by the new proposition of a dog tax for the support of common schools, because many cur owners are also child owners. It is difficult to conceive of any man's has been the means of securing for us con-siderable additional business. We will be thinking more of his dog than of his child,

oped. That made the issue largely one of bales, an increase over the same period last year of 2,126,133 bales. The exports were 8,274,400 bales, an increase of 1,011,713 bales. The takings were, by Northern spinners, 2,644,282 bales, an increase of 779,079 bales; by Southern spinners, 2,381,033 bales, an increase of 218,044 bales.

THAT SOUTHERN ARCHITECTURAL MONUMENT.

Five months ago, it may be recalled, a million-dollar "Southern Architectural Monument" was to rise quickly, under the auspices of the Southern Commercial Congress, upon a site in Washington toward the \$511,000 purchase price of which \$50,-000 had been paid, it was reported. It was expected that one thousand Southern men would each contribute \$1000 for the endowment fund of \$1,000,000 necessary to buy the site, erect the building and assure a pleasant life-nook for at least one individual, to say nothing of commissions ossible in real-estate transactions. At the time Southern business men were given the opportunity to send to Washington for deposit to the account of the Southern Commercial Congress, which had not then a personality in law, a draft for \$250 and three notes for \$250 each, payable in three months, six months and nine months, respectively. In return for these four favors was to be sent a receipt, and ultimately, in exchange for this receipt, the makers of the drafts and the notes were not only to receive certificates of membership in the Southern Commercial Congress and in the Southern Club, which was proposed to be formed, but they were also to be bowled along the posterior corridors of time as patriots of purest ray serene. As the membership in the Southern Commercial Congress was to be devisable or transmissable by will or in some other proper manner, contingent, of course, upon one's letting loose that thousand dollars for the endowment fund, there was in the scheme the germ of another patriotic national body, the Sons and Daughters of the Original Members of the Southern Club of

The Southern Commercial Congress was to be an unincorporated enterprise, but its holding and investing end was to take the form of a joint stock company to be known the Southern Commercial Congress Company under the laws of the District of Columbia, with a capital stock of not less than \$50,000 and not more than \$5,000,000.

The one thousand Southern business en willing to contribute \$1000 each to such an enterprise have naturally not materialized. But the Southern Building Corporation has been formed and now it is announced that-

"The building and ground will cost \$1,500,000 and the stock of the building company will be sold throughout the Southern States."

It is also announced "officially" that-"General publicity work carried on by the Southern Commercial Congress for the benefit of all Southern States will go forward without cessation."

Regarding that "publicity work"-but why further comment?

CRY FROM MACEDONIA.

For the moment Britishers are bubbling with enthusiasm over Bleriot. However, on as the significance of Bleriot's aeroplane flight across the channel dawns upon the British mind one may expect another howl originating in Downing street about the blood-is-thicker-thanwater relations of Great Britain and the United States and the necessity for "Anglo-Saxons" to stand together for the maintenance of civilization in the world. But England, in attempting again its cat's saw policy, will miss Pauncefote. Still,

What is the Use of Discussing the Duty on Hides?

By B. N. Baker of Baltimore.

[Written for the Manufacturers' Record.]

FACTS.

The United States Government owns the Panama Steamship Company, from New York to Colon, and owns the Panama Railroad Company, from Colon to Panama, and operates them as commercial lines.

The Panama Steamship Company claims the right to regulate rates to and from Colon on account of the joint ownership of the Panama Steamship Company and Panama Railroad Company by the United States Government, War Department.

FACT

The rate on hides from Central America to New York is \$30 a ton. The Pacific Coast Steamship Company, from Central America to Panama, receives \$12 a ton; the Panama Railroad Company, from Panama to Colon, receives \$8.10 a ton, and the Panama Steamship Company, from Colon to New York, receives \$9.90 a ton.

The rate on hides from Central America to Europe is \$24 a ton. The Pacific Coast Steamship Company, from Central America to Panama, receives \$8.40 a ton; the Panama Railroad Company, from Panama to Colon, receives \$5.60 a ton, and the Panama Steamship Line, from Colon to Europe, receives \$10 a ton.

An American importer pays the Panama Railroad Company, owned and operated by the United States Government, \$2.50 a ton more, if from Central America, and pays the Pacific Coast Steamship Company \$3.60 a ton more on hides than an English, French or German importer pays.

DISTANCES.

Colon to New York, 1981 miles; Colon to Liverpool, 4692 miles, and Colon to Hamburg, 4992 miles.

FACT.

The rate on hides from Guayaquil to New York is \$22.50 a ton. The Pacific Coast Steamship Company, from Guayaquil to Panama, receives \$8.55 a ton; the Panama Railroad Company, from Panama to Colon, receives \$6.28 a ton, and the Panama Steamship Company, from Colon to New York, receives \$7.67 a ton.

The rate on hides from Guayaquil to Europe is \$19.20 a ton. The Pacific Coast Steamship Company, from Guayaquil to Panama, receives \$6.40 a ton; the Panama Railroad Company, from Panama to Colon, receives \$4.80 a ton, and the Panama Steamship Line, from Colon to Europe, receives \$8

RESULT.

An American importer pays the Panama Railroad Company, owned and operated by the United States Government, \$1.48 a ton more, if from Guayaquil, and pays the Pacific Coast Steamship Company \$2.15 a ton more on hides than an English, French or German importer pays.

REMARKS.

Let us spend millions more to build the Panama Canal and millions for its fortification, but not one dollar to develop the commercial interests of our country!

pleased to take advantage of your "Machin-ery Wanted" columns at any time we are in the market.

ANTI-DOG.

 Λ new term has been given the agitation gainst superfluous dogs in the South in a bill introduced in the Georgia Legislature for the levying of a tax upon dogs, the proceeds of which are to be turned into the school funds of the several counties, Heretofore such proposed tax has usually looked to the elimination of worthless curs

so it is hoped that the bill may become a law and that Georgia may lead the way in a policy that will make the dogs of the State contribute to the welfare of the children of the State directly in swelling the school funds and indirectly in creating a great sheep-raising industry.

THE COTTON MOVEMENT.

In his report for July 23 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 326 days

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DEEP WATER AT BEAUMONT.

Enterprise of Citizens Assures a Com-

[Special Cor. Manufacturers' Record.] Beaumont, Texas, July 22.

By a most overwhelming vote of 13 to 1. the people of Jefferson county have authorized the issuance of bonds to the amount of \$498,000 for the purpose of deepening the Sabine-Neches Canal and further improving the Neches River so as to enable ocean-going vessels to ply direct to Beaumont. In Beaumont only nine votes were cast against the proposition, which attests the unanimity of the progressive spirit for which Beaumont is famed. It was the same spirit that built the Beaumont of today and assures the greater Beaumont to be. It was the same pluck and enterprise that gave this county the splendid system of highways, the great irrigating canals that water thousands of acres of rich rice land that annually yields millions of dollars and gives profitable employment to thousands of people; that recently authorized the city authorities to construct a public wharf on the river front. It was another brilliant exemplification of the Beaumont spirit, which dared to do what the Federal Government has done for other cities and might have ultimately done for Beaumont.

The great possibilities for making Beaumont an important inland port have long been realized by some of the foremost and farsighted citizens. As a result of an effort in this direction an appropriation was secured to dig a canal along the west side of Sabine Lake and connecting the mouths of the Sabine and Neches rivers with the Gulf. This canal is now 100 feet wide and about 10 feet deep, permitting only light-draft vessels to pass through, but it has proved sufficient to suggest the great possibilities offered for the opening of another important artery of comi and the development of the many and varied resources of this section.

Being unable to secure immediately a sufficient appropriation from the Federal Government, and realizing the danger of further delay, it was proposed that the people provide the funds for the improve ments immediately necessary, and plans were quickly formulated. A law conveying the constitutional right to issue bonds by vote of the people was drawn by citis of Beaumont, and has been enacted by the Texas Legislature. The National Congress has also granted the necessary permit to make the improvement, and now that the bonds have been authorized, it is expected that the actual work will begin without delay.

With the deepening of the canal and the improvement of the Neches River, which is already one of the best of navigable streams, Beaumont is destined to become an important inland port. A fresh-water port is always attractive to shipowners. and there is reason to believe that Beaumont will do a big shipping business by water as soon as the canal is deepened to such an extent as to enable ocean-going vessels to ply direct to this port. It is now proposed to deepen the canal to 25 feet. With slight improvement the Neches River is already deep enough. This river runs through vast forests of fine timber, and much of it can be floated or handled by barge to Beaumont, which is an ideal embling point. Some idea of the possibilities of shipping business for the new port of Beaumont may be gleaned from figures showing the tonnage originating in the immediate vicinity of Beaumont and controlled by Beaumont people.

The Beaumont rice mills, which are among the largest in the world ship annually 350,000 bags of clean rice, each bag

weighing 100 pounds, or a total of 5,500,-000 pounds. Beaumont lumber concerns ship annually 300,000,000 feet of pine and bardwood, or 900,000 tons. The Beaumont oil field has not gone dry by any manner of means, the production being something like 2.000,000 barrels per annum, while the total production of Southeast Texas is nearly 11,000,000 barrels. The great pipe lines from other oil fields in Texas, Oklahoma and Louisiana bring additional millions of barrels of oil to the great refineries at Beaumont, Port Arthur and Port Neches, which shipped over 8,000,000 barrels by vessel from Port Arthur and Sabine last year, which was less than in 1907 or 1906. This indicates oil tonnage beyond the ability of this writer to com-

The great sulphur deposits are near Beaumont, and every day a long train of cars of sulphur passes through Beaumont to shipside at Sabine. To the north of Beaumont are the great iron fields of Texas, which must soon be developed, and here is the near and accessible port for handling this vast amount of tonnage Indeed, it is expected that much of the iron are will be milled at Resument or along the Neches River, where so many advantages are offered for industrial plants, cheap fuel, an inexhaustible supply of the finest steaming water, cheap and convenient shipping facilities forming a ost attractive combination.

In a short time Beaumont will be able to ship her products to the ports of the world, and the location is especially advantageous for trade with the West Inlies, Mexico and South America. Beaumont Chamber of Commerce has already perfected arrangements for the establishment of a ship service between Beaumont and Mexican and Central American ports. It is also negotiating for the establishment of coastwise service between Beaumont and Galveston and Beaumont and New Orleans, and indications are favorable for the establishment of such

Push and energy is evidenced on every hand, and every day brings reports of new enterprises. A few days ago arrangements were perfected for the establishment of another woodworking plant to manufacture washboards, lawn swings, stepladders and similar articles, and giving employment to a large force of men. Beaumont will be the operating center for two other similar plants owned by the same company, one at Anniston, Ala., and another at Lancaster, Pa. During the past few days arrangements have also een made for the immediate erection of a large building to be occupied by a wholesale grocery store, and for a modern apartment-house. A company has been organized for the extensive distribution of pianos and other musical goods. The company will start with \$100,000 capital, and will handle the Texas business for some of the largest manufacturers in the The McFaddin-Wiess-Kyle rice mills will at once establish a department for putting unpolished rice on the market in one and three-pound packages. Scientists claim that in the process of polishing rice the most nutritious elements of the cereal are removed and much of the food value lost. A large sum will be invested in the new plant, which will give employment to a considerable operating force, and \$20,000 has been appropriated for advance advertising. At the beginning the plant will have a capacity of 50,000 packages per day, or about two carloads. Negotiations are also under way for the establishment of a large wagon factory that will give employment to 200 to 300 operatives and will utilize the hardwoods of this sec tion. T. W. LARKIN.

Secretary Chamber of Commerce.

LOOKING FOR IRON.

Representatives of the Middle West in Birmingham District.

[Special Cor. Manufacturers' Record.] Birmingham, Ala., July 26.

Notwithstanding the fact that several large concerns in the Middle West have had their representatives in the district the past week looking for iron, few sales ere reported. This is probably partly due to the fact that the makers refused to entertain offers for fourth quarter. In addition to the announcement that one large concern "deserted" the market during the week, still another important interest has practically sold what it terms its allotment for the third quarter, and will not consider fourth-quarter business. In all probability this means that by the first of he month this concern will also withdraw from the market and join the "happy waiting hand " While the more conservative put the price at \$12.50 per ton, No. 2 foundry basis, there are some who demand on extra quarter for spot iron, making the base price \$12.75 per ton at the furpace. One sale of 1000 tons of No. 4 foundry for nearby shipment was made.

Repairs have been completed on the Alice furnace, and by the end of the coming week operations will be well under The chill molds have been remo from this plant.

The Williamson furnace has been thoroughly repaired, and at present is being dried out. Present indications are that it will be ready for blast about Monday

The Tennessee Company has double shifts at work on repairing No. 3 furnace at Bessemer, which was recently blown Notices of "laborers wanted" are out. hanging on the walls of the employment office of the company, and as fast as they can be obtained the mines and coke ovens are resuming operations. The mines at Wylam, the coke ovens at Ensley and Pratt City are being started as fast as conditions will admit. Additional ovens at John's mines are being fired, and other operations resuming along the line of the Birmingham Mineral. The Robertstown and Bessemer coke ovens are also going in. This means that the Birmingham South ern must have an eye to taking care of this increased business, and to that end it has not been asleep. It has received the balance of 175 steel-pressed dumps, and is turning out of its own shops at Pratt City about four gondolas a week. It has also made ample provision for its water supply, completing its dam at Lickton, with storage capacity of 50,000,000 gallons of water.

The local machine shops in the district port a somewhat healthier condition in their line, and within the past few days two representatives of a municipality in Kentucky visited one of the shops here for the purpose of ascertaining whether or not it was equipped to take care of a contract which it had been awarded by reason of being the lowest bidder. While the competition was keen, bids having been reeived from all over the country, the facilities and other conditions for handling the centract here were favorable.

The plant of the Central Foundry Co. at Anniston, which sustained heavy damages during the recent storms, has resumed operations with a full force of men employed.

Prices remain unchanged in the castiron pipe market, but the recent advance of \$1 per ton is well maintained, with tendency now toward still further advance shortly. Manufacturers are still receiving scattering orders for 500 to 1000-ton lots, and seem well satisfied to continue this way, and not confine sales further ahead Four to six-inch water pipe, \$26 per ton at the foundry; 8 to 12-inch, \$25 per ton; over 12 inches, \$23 to \$24, with \$1 a ton extra for gas pipe.

The scrap-iron market continues firm. and there is no tendency to unload at a sacrifice. Quotations are as follows:

Old iron axles, \$14 to \$14.50.

Old iron rails, \$14 to \$14.50.

Old steel axles, \$12 to \$12.50.

No. 1 railroad wrought, \$12 to \$12.50.

No. 2 railroad wrought, \$10.50 to \$11. No. 1 country, \$9.50 to \$10.

No. 2 country, \$9 to \$9.50.

Old steel rails, \$10 to \$11.

No. 1 machinery, \$10.50 to \$11.50.

No. 1 steel, \$10 to \$11.

Tram cars, \$10.50 to \$11.

Old standard car wheels, \$13 to \$13.50, Light castings, stove plates, \$9 to \$9.50. Mill cinders, cast borings, \$5 to \$5.50.

The announcement the past few days that the Southern Iron & Steel Co. had definitely decided to build an entirely new wire, rod and nail mill, of brick and steelframe construction, at Alabama City, Ala. at a cost of \$750,000, and probably reaching the million-dollar mark, was encouraging news. The people of Gadsden raised \$150,000 and offered it as a bonus for the plant. The general offices of the company will be located in the Brown-Marx Building, Birmingham.

The Southern Iron & Steel Co. has

started cleaning out Trussville furnace for relining, prepaartory to blowing in as soon as possible, and it anticipates a daily output of from 175 to 200 tons of iron. Part of the bricks are already on hand. The superintendent of the wire nail and rod mill to be rebuilt at Gadsden is preparing the ground and the plans for the plant. The company's Altoona coal mines are in operation, and the Crudup mines are running at full blast stocking ore.

Our people are very much wrought up ver the tariff agitation, and especially so m regard to the ore, coal and scrap-iron end of it.

Yesterday morning the washer and rusher plant of the Alabama Consolidated Coal & Iron Co. at Searles, Ala., was burned to the ground. In the bins were about 1200 tons of coal.

South African Trade.

Isaak Haarhoff & Son of Pretoria, South Africa, informs the MANUFACTUR-ERS' RECORD that during the last calendar ear British South Africa imported 682,-103 hundredweight of iron, not including hardware, machinery, railway material, fencing and rope wire, valued at \$3,000. 000, and 345,810 hundredweight of steel, ralued at \$950,000, and paper valued at \$1,000,000, the value being in round numters. The Pretoria firm suggests that there is great opportunity in South Africa tor trade in such articles, and calls attention to a bonus offered by the Government on the finished products of iron and steel.

Moving to Texas.

A. E. West, Jr., vice-president of the Enid, Ochiltree & Western Railroad Co., writing from Dalhart, Texas, to the MAN-UFACTURERS' RECORD, says:

"New towns are being opened up and settlers coming in rapidly. Crops in counties to the east are the best in years, oats running as high as 100 bushels to the acre in Ochiltree county."

Want College Building Plans.

The trustees of the North Texas Normal College will receive bids until August 24 for the plans and specifications to construct a college building at a total cost of not more than \$35,000. Architects can obtain information by addressing J. T. Botthan 60 days. Following are prices: torff, secretary, Denton, Texas.

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Virginia's Active Interest in Improved Highways.

By GOVERNOR CLAUDE A. SWANSON.

[Written for the Manufacturers' Record.]

date, requesting me to furnish you a stateginia, the work that has been done and the prospects for future improvement of the State highways

In reply to this inquiry I will say that Virginia commenced her present movement for road improvement at the session of the General Assembly of 1906. Up to that time the State had done nothing toward either the construction or improvement of the highways. The matter had been left entirely to the counties and local authorities. The General Assembly of 1906 commenced this movement by creating a Highway Commission, with sufficient and competent assistants, who were authorized to make surveys and specifications for the counties and local authorities upon request, free of charges. It was thought best for the State not to make appropriations for road construction until the department had been organized and could see that the money was wisely and properly expended. The same session of the General Assembly passed a law directing the employment of all prisoners in the jails and convicts sent to the penitentiary for a term not exceeding two years, to be used upon the highways in improving and constructing them. 'The State appropriated sufficient money to guard, feed and clothe these prisoners, and the local authorities furnished the material and machinery to be used. Under the operation of this provision the State furnishes about half the cost of construction of the roads and the counties and local authorities the

Heretofore the State had kept all pris oners in the jails in idleness, costing about 25 cents per capita to feed, clothe and guard them, and received nothing in return. Under the operation of this law the State has been able to feed, clothe and guard these prisoners for a great deal less than it cost to keep them in prison, and in addition secures their work on the publie roads. The health and the moral and thysical condition of the prisoners has been greatly improved while engaged in load building. A marked improvement in bealth has been noted. The camps have been constructed with the utmost regard for the laws of sanitation, and very little sickness has occurred among the prisoners. The success of the convict road forces has been marked, and shows results as Leneficial as its most sanguine advocate

The last General Assembly increased the term of those sentenced to work on the roads to five years, and this will add largely to the force.

Under the operation of this law there are now 14 camps engaged in road work in the State. The demand for these campa is larger than the State can supply. The law will doubtless be amended at the next session of the General Assembly so as to provide for more camps and make it easier to obtain the jail prisoners

When the last General Assembly met it was evident from the number of convicts available that a vast majority of the counties could not receive the benefits to Le derived from this law; hence the General Assembly appropriated, commencing the 1st of March, 1909, \$250,000 out of the State treasury to be divided among the counties in proportion to the taxes paid by the counties, conditioned upon the counties or local authorities furnishing an amount equal to that furnished by the State, this amount to be available in those

I am in receipt of your letter of recent | of a road camp during the year; the roads to be constructed or improved to be under ment of the good-roads movement in Vir- the direction of the Highway Commissioner, and according to his plans and specifications.

Where the amount furnished by the State was less than \$2500 the counties were permitted to use this in the construction of bridges, the county furnishing an amount equal to that furnished by the State; the location of the bridge to be determined by the State and county authorities, and the plans and specifications to be approved by the Highway Commissioner.

Under these two laws this year the State appropriation to the aid of road improvement is \$329,800. The results from the joint operation of these laws have been wonderful, and have given a great impetus to road improvement and construction

All the counties in the State except 10 have availed themselves of the provisions of the law, and hence in all the counties except 10 there is at present either being constructed permanent roads or needed bridges. The advantage of this law is that it gives every county an object-lesson, en abling it to see the advantages accruing from the construction of good roads. Experience has shown that wherever an object-lesson of even a few miles of good road has been constructed it had been followed immediately by the construction of many additional miles and a great increase of interest in good highways.

Under the operation of these laws 130 miles of permanent road have been constructed within this State; 193 miles more are under contract and in process of con struction. The roads constructed and those contracted for are of the best modern Arrangements have been made to begin at an early date the construction of 136 miles more, located in 26 different counties. Thus in a very short time, under the operation of these laws, Virginia will have constructed 459 miles of permanent road.

Surveys have been made for 141 miles more, which will soon be let to contract. Applications are pending before the Highway Commission for 138 miles to be surveyed for the purpose of construction. Thus in the near future Virginia will have under contract and in process of construction about 738 miles of permanent roads.

In addition to this, in nearly every county and section of the State there is manifested an intense interest in public roads. The citizens and local authorities are uniting to greatly increase the present amount of road improvement. Each day witnesses a great acceleration of the movement-more interest, more appropria tion of money.

In addition to this the Highway Commission has prepared plans for many splendid iron bridges in 26 counties, the majority of which have been completed or are now under construction under this State aid.

The plan of road improvement and betrment in Virginia by the joint aid of State and local authorities has been productive of most beneficial results, and I am sure will be further extended by the next General Assembly.

The law provided that the money apportioned to each county can be used in payment of interest on bonds or for the retirement of the principal of the bonds ssued for road betterment or construction it so desired by the counties. Under this provision a county is enabled to issue bonds and then use the funds furnished by counties that could not obtain the benefit | the State to pay the interest on the bonds

or as a sinking fund for the retirement of the bonds when due, the State paying half the interest and half the sinking fund. Under the operation of this law \$969,000 of bonds have been issued, and when disposed of will greatly increase the amount of road construction. The issue of bonds under this law would have been much larger but for some doubt as to the legality of certain provisions of the law governing bond issues in connection with the require ments of voters. This can be easily corrected at the next session of the General Assembly, and this provision of the law will doubtless be availed of by many coun-

The fight for good roads in Virginia has en won if the present earnest work and interest are continued, and neither the State nor local authorities will be so unwise as to venture in doubtful or risky experiments. The movement in Virginia has been marked by continuous improve ment, because the laws have been practical and wise, and there has been no expenditure of money except that which ould bring immediate beneficial results Wild and hazardous schemes, which in the end must result in failure, can but result disastrously to the movement.

I hope the next General Assembly of Virginia will wisely and in a practical way continue and further increase the good work done by the last two General Assemblies, and if so Virginia will soon have a wonderful improvement of her public

I favor the next General Assembly pass ing an act dedicating a certain amount derived from a specific source of revenue for the State aid to roads to be distributed and utilized under the present law. It would seem to me to be a wise provision for the State to pass an enactment pledging that in the future all money derived from the State taxation upon the physical

property of the railroads, amounting last ear to \$289,262.36, should be used in the future for public highway improvement and construction and to be distributed among the counties and used as provided by the present laws. This would make the State aid permanent. The counties that think proper to issue bonds would then know what they could expect in the future from the State to pay interest and create a sinking fund, and could thus act wisely in regard to the issuance of bonds. This would also enable the counties that decided to issue bonds to sell the bonds easily and at reasonable prices, because the State had pledged a certain sum to pay the interest and create a sinking fund for retirement of the bonds. The counties that did not wish to issue bonds could use the fund for the construction and improvement of the roads. I believe the enactment of a law of this kind would give an immense impetus to road improvement in Virginia, and in a few years the State would be covered by splendid public highways. This plan is practical, prudent, and there would be no expenditure of money except for immediate and practical benefits. The revenue of the State is amply sufficient to justify this expenditure for public roads. Each year would witness (as the railroads inreased in value and mileage) an increased amount available for road construction.

I believe a model system of road construction and improvement is to be found in a combination of Federal, State and local aid. The travel over the public highways is national. State and local. The expenditure of money for their improvement should be similar.

Virginia is fully awake to the importance, socially and economically, of good roads, and I fully expect to witness each year an increased interest in the construction of permanent public highways.

Richmond, Va., July 23,

Saved By Its Wonderful Concrete Seawall.

Galveston's Work of Faith Vindicated Under A Severe Test.

ndence Manufacturers' Record.]

Galveston Teyas, July 24.

That the great concrete wall reaching its protecting length for four miles along the ocean side of Galveston city has alone prevented an appalling disaster to life and property is a fact so palpable as to find ready acceptance in the minds of everybody. A storm so severe as to cause rearly \$2,000,000 worth of damage and the loss of a score or more of lives along the Gulf coast pounded for hours upon the majestic Galveston seawall, and when it subsided there was no record of more than trifling damage to any buildings in the erea of the seawall's protection, and not a single life was lost within the limits of the city.

No wonder Galveston's Mayor sent rectings to the world and jubilantly heralded fact that the test had come and the seawall had justified the expectations of designers and the tremendous cost which the people had paid for the protec-

In the midst of the jubilation, nevertheless, there are those who question the everity of the test and indulge in speculation as to the outcome had the storm raged for two or three times the duration of the recent hurricane and had the wind reached the velocity of the 1900 storm, when the wind gauge blew away at the 120-mile reading. The skeptical were quite ready with "I-told-you-so's" when the first wild reports reached the interior

Lits intended work of protection and that all Galveston was six or seven feet under water. It may be conceded at once that given the identical conditions of the storm of September, 1900, the test would have been a much severer one than the storm of Wednesday afforded, but the overwhelming fact remains that the seawall saved the day; did exactly what it was expected to do, and that without it the seas would have flooded the city and undermined bouses, which the wind would have pounded together to destruction and in the flood and wreckage great loss of life would have been the inevitable result.

And it is necessary to remember that plans for the seawall were laid with the force of wind and height of wave of the 1900 storm in immediate mind, and in the construction of the wall and the filling in of over half the city to a higher grade it was announced that "when the contractors finally quit, Galveston will be above the highest flood line and its safety as secure as the best science can make it."

In the storm of Wednesday bathhouses on the beach were wrecked and their timbers were pounded against the seawall until they were reduced to kindling wood, which the spray threw up in piles along the seawall and roadway. Occasionally waves of greater height would toss a huge timber or a drifting log over the top of the wall and deposit it anywhere from the water side to 20 feet inland, but the conditions are well illustrated by the fact that hundreds of sightseers thronged the to the effect that the seawall had failed in wall during the storm, and from the vantpoles were unharmed by wind or wave.

For 20 hours the water was over the foot of the seawall, and there was enough water blown over the wall in this time to saturate parts of the island. That it was no ordinary blow is evidenced by the fact that almost the entire iron tailing along the apex of the seawall was blown down, most of the uprights being broken off at the plates, but in some instances the bolts themselves being torn out of the grouting in the concrete.

Thus there is ample evidence that the test was an extraordinarily severe one, and an examination of the seawall demonstrates that in all essentials it came through unscathed.

Pessimists and doubters there are on every possible subject relating to the here or hereafter. Some of these have conceded the sufficiency of the wall as a protection, "provided it sticks." Such have pointed out that there is an ever-present danger of the sand under the wall being washed out, with the consequent destruction of the seawall by undermining. Those informed dismiss the suggestion as solely due to ignorance of the seawall's construction. In this connection it may be well to recall that the foundation rests on four rows of round piling 12 inches in diameter, driven four feet apart, and extending down 44 feet into clay. There is also a row of sheet piling just inside the outer row of piling, driven into the ground 26 feet below mean low tide, for the express surpose of preventing undermining. Furthermore, all along the base of the concave seawall front there are gigantic blocks of granite riprapping, 100,000 tons in all, making a protecting apron 27 feet wide and four feet in thickness, and it is pointed out that even should there be any washing out of sand in the direction of undermining-a contingency which is considered of the remotest-the granite riprapping would drop into the cavity and prevent any serious inroads.

The four-mile seawall has its top 17 feet above mean low tide. It is 16 feet wide at the base and 5 feet at the apex. It is of solid reinforced concrete, in which crushed granite was used, and the reinforcement is of heavy steel rods nine feet in length, placed in the wall every three feet. Ten carloads of reinforcing rods were used and 150,000 tons of concrete, in which there were 50,000 tons of sand and 27,000 tons of cement. There were 18,000 round niles used in the foundation and 4,000,000 feet of sheet piling.

Eminent engineers were in charge of the plans and the construction, and Galveston feels that her faith in their ability and her own heroism in levying the enormous tax on the people which the undertaking involved have been amply justified in the immunity just received, and she furthermore has entire faith against any serious disaster from storm loss in the future. Serenity describes the attitude of her men of affairs, and the way she came through the storm is regarded as the best and greatest advertisement Galveston could possibly have been given.

She is going ahead with her great undertakings without any interruption having occurred, and with even a larger faith in the continued growth and importance of the city as one of the great ports of the Work on the giant causeway connecting the island with the mainland is already under way, and this million-anda-half-dollar improvement, which will provide a solid concrete roadway for railroads, wagons, interurban car line and foot passengers, as well as carrying the mains supplying the city with water, will be completed, according to contract, in December, 1910. Already the city and contiguous territory are alike feeling the efsort town and playground for the people accomplished, however, without a citizen-annual output of \$42,738,615.

age ground of pillars and electric-light fects of this contemplated improvement. The interurban car line is closely identified with the causeway development. It was, of course, impossible of construction without a bridge across the inlet, but will be completed between Galveston and Houston coincident with the opening of the causeway to traffic.

This will give ready access to Galveston from every point along the line, and will practically put Galveston on the mainland. Since the destruction of the old wagon road by the storm of 1900 there has been no wagon driven into Galveston from the mainland, and the single railroad bridge was the only means of transportation be tween the island and the outside world, save through boats. That the city has grown with so great a percentage of increase and that the mainland adjacent has not retrograded may well be the occasion of surprise. Under the stimulating influence of the causeway's early completion lands in the territory to be served by the interurban line are being bought up in 10, 20 and 40-acre tracts, and the great development of a truck and fruit-growing industry is assured.

Galveston itself will be wonderfully benefited by the quickened flow of pass and commercial traffic which the interurban line and the wagon road will bring. and with the improved facilities for easy access and egress there should be an excursion business into Galveston during the greater portion of the year of proportions sufficient to duplicate in some degree at least the development that has occurred in Atlantic City. For nowhere in the South is there a beach approaching the attractiveness of Galveston, with its almost unparalleled velvety softness and gentle slope to the sea, and nowhere South is there to be found such a combination as is here of populous city and bathing beach in its front-door yard.

At this time and in this connection there may be added force to the query of some years as to what is to be the future of this town that Galvez, the Spaniard from New Orleans, founded in the century before the last; this storm-stressed and timetried furthermost outpost of any seaport that courts the trade of the Caribbean Sea: this whilom home of the pirate Lafitte and ofttimes convenient refuge of the buccaneers of the ancient Spanish Main; this city of later splendor, with its multiture of merchant princes and captains of finance and trade; only second today as an export port among the cities of America; the only port of the South right on the sea, where ocean-going vessels of the largest class come into their docks under their own steam: the terminal point of most of the railroads that carry the trade of the entire trans-Mississippi territory, can Galveston be prevented from becoming a really great city, or is she doomed to be the dooryard of a metropolis elsewhere, the mere funnel of a business that obbs and flows out to and from all the world without touching and vitalizing this medium of contact?

There is no unanimous opinion on the ubject either way, even among the people of Galveston. While some enthusiasts foresee the time when there will be a milhon people in the Galveston district. which is made to include the city on the island and those now building at Bolivar Point and Texas City, and are counting on a development along Buffalo Bayou that will make an almost unbroken community from Houston to the bay, others consider such prophecies mere idle dreams and are convinced that Galveston must remain content with a slow and modest growth: a position as a port with but little profit locally in the cargoes shipped

pects of navrolls, with fuel high and no extensive population of laboring people to draw on were industrial enterprises to be contemplated, and they seem reconciled, as on inexorable decree to the loss from Galveston of the greater part of the jobbing trade that she once posses

While the enthusiasm that gives to Galeston anything like a million population in the shortly coming years may be somewhat overwrought, it seems to me, from a survey of the field, that the optimists have the better side of the argument. While in matter of growth Galveston would seem to have lagged behind all the progressive cities of the State, she has, as it seems to ne, done amazing well to get back to the opulation she had before some 8000 of her citizens were destroyed by the storm.

It must be remembered that fully 10,000 people moved away from Galveston after the storm, so that in 1901 the population is considered to have dwindled to about 20,000. With an estimated population today of 40,000, it will be seen that the percentage of growth for eight years has een 100 per cent., which is of significance and importance to a degree, and everything considered it may not be beside the fact to conceive that Galveston is just now prepared for a long leap and a swinging tride to the fore.

It was a work of marvelous heroism for these people to pull themselves together after the appalling losses of the 1900 storm. On top of the irreparable loss of lives and the enormous loss of every kind of property, there has been a further gigantic burden of taxation on the people to not only restore the city to its former conditions for carrying on trade and as a place of habitation, but to provide protection against future storms.

The \$4,000,000 or so that this is costing the taxpayers of the city and county is but the beginning of the expense volved. It was necessary to raise 1000 ouses, some of them as much as 12 or 14 feet, all of which had to be paid for by the individual. Nor was this expense much pore than a starter; not only was new tencing required, but in all the area affected new sidewalks, new street naving and new sewers will have to be put in, and finally, every vestige of verdure, all the fine old trees, palms, vines, shrubs and flowers, and the grass itself, in the area filled in or touched by the salt water pumped in by suction dredge from the bay with the sand used to raising the grade has been killed to the very tip of the roots. Figures are impossible to obtain, but estimates by some of those who have had occaion to look into the matter somewhat closely are to the effect that probably all of \$25,000,000 will be required to pay all the bills the restoration and protection will involve.

Necessarily, not all of this work can be done at once, nor paid for for some time; but that most urgent has been taken care of, and the city is getting in shape to push developments and improvements with the greatest possible diligence. There is yet very much to do, both in a public and in a private way, but not until the burdens of taking care of immediate necessities have been somewhat lifted will the people have appetite for taking hold of such enterorises as are nevertheless and quite palrably needed, like new and modern hotels, for instance, and better store and office buildings. Here would appear to be occasion for the activities of some of the 20 or more millionaires who live in Galveston and who made their money here in times past, but who are now frequently to Le found in innocuous retirement.

What Galveston has so splendidly per-

of the State. Such as they see no pros- ship of alert, responsible and daring business men with a genius for doing things Galveston is already reaching out for the trade of the Central American States, and relations of the most favorable sort are Leing established with those countries

Galveston's shipping covers the globo and with a present 30-foot channel it is the expectation that by the time the extension of the jetty work under way is completed a 35-foot channel will be the result.

As to what may be expected here in the ay of the deevlopment of manufacturing there are those who maintain that with proper effort a very considerable indus trial growth may be brought about. As ships now come in ballast, practically, and without cargoes, it is maintained that an import trade in raw material of many kinds, to be manufactured here, is entirely feasible. That the railroads ought to beome interested in the development of local industries is indicated in the fact that miles of empty cars go North from Galves ton every year. It is maintained that the manufacture of bagging and the products of sisal, hemp, manila and fine cotton goods should be practicable here as a starter, with the inevitable result that other industries would develop collaterally and in consequence, as is always the case verywhere a start is made.

While there may be labor conditions which would necessitate an adjustment to factory conditions and requirements, as men are affected by the fact that they do tot have to work here as they do under the stress of climatic conditions in the North, and the farms, with their comfortable wages, are a very pleasant refuge, yet there is still a big population here of boys and girls who would like to work, and parents who have an appreciation of the comforts the entire household might enjoy from a materially increased family income. And labor here is described as of a high class, as a rule.

Texas and the middle West needs all the facilities for ocean commerce that Galves ton contains or can provide. There will be an overflow of business in the fast com ing years, and for this there must be facilities provided at Texas City, Bolivar Point and numerous places on the Buffalo Bayou. or the Houston-Galveston ship channel, as it is now called. With the development of Texas and contiguous territory, now only just well begun, there will be needed every facility that the situation affords. The Galveston-Houston district is essentially one in interest and destiny. Galveston is vitally essential to the developments that are to occur, and I feel wholly justified in predicting her continued prosperity and tremendous future growth.

ALBERT PHENIS.

Wishes to Buy Two Steamers.

A letter from Newport, Ark., says: The second of the White River Transportation lines is now in process of organization. About three weeks ago the White & Black River Transportation Co. filed its papers. The three boats run by this comoany are operated entirely on the upper part of the river and in the timber busiess; their southern terminus is Newport. The White and Black River Packet Line is being incorporated to do a general freight and passenger business, to make all river points and to connect with the Little Rock packets at the mouth of White River. The econd of these companies is now in the market for two light draft river steamers."

In the four years just ended, according to a census of the Chamber of Commerce. \$8,157,791 were added to investments in industrial enterprises at Dallas, Texas, 000.

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IN NORTHWESTERN ALABAMA.

Where Progress and of Are Coupled. Opportunity

There is a territory in Northwestern Alabama which deserves a good deal more attention than it has probably received in the past. This is the territory largely included in the counties of Walker, Winston, Marion, Franklin, Lawrence and Colbert. The Northern Alabama Railway, of the Southern Railway system, is the railway outlet for the greater part of this region, though it is tapped at the north by the Memphis division of the Southern, and in Walker county by the Southern and the Frisco, while the Illinois Central from Corinth to Haleyville cuts through a portion of Marion county. Recent reports from the region and investigations lately made show that all through the section, which is naturally very rich, and which possesses undeveloped opportunities of many kinds, has taken on new energy and is making splendid progress along many lines. At the south end of this region are the great Walker county coal deposits of the Warrior field, at the north end the extensive brown hematite fields of Franklin county, and all through the territory are splendid areas of pine and hardwood timbers, with splendid farming and fruit-growing lands. Strategically its losition is unusually fine, with the great Birmingham development at one end and the three Tennessee River cities of Sheffield. Florence and Tuscumbia at the other.

The towns and villages, Jasper, Haley-

ville, Russellville and smaller places, are steadily improving. Their people seem to be wisely laying the foundation for the steady and substantial growth which will come with the fuller development of the region. At Jasper there was completed this year a magnificent courthouse of Georgia marble, at a cost of \$150,000, one which in beauty can hardly be surpassed; extensive street improvements have been made and building operations have been on a liberal scale. A better class of buildings, both business and residence, are being erected than ever before. Haleyville has erected a large number of fine business structures within the past two years, during which the town has doubled in population. At Russellville, a good portion of whose business district was burned in 1908, the character of the new buildings which have replaced those destroyed is far above the average found in the town or small city. The construction of better streets, the building of sidewalks and of sowers evince the progress of these and other places. There has been a distinct advance in the character of school buildings and the work of the public schools throughout the whole region. Jasper not long ago built a good grade school building, and only a few days ago voted bonds commodious high-school structure. At Russellville the Franklin high school was recently completed. The returns show a large amount of money spent during the past 18 months on rural schools and the extension of the school year, with greater attention on the part of the people to the efficiency of the instruction. For the first time in its history all of the 40 school districts in Franklin county are now provided with good school buildings. The question of building improved highways is being agitated in all the region. Walker county will probably soon vote on the issue of \$250,000 for macadamized roads, and the subject is a live one in Franklin county.

Few people understand how wonderful the natural wealth of these counties is. The coal measures practically cover all of the 824 square miles of Walker county, and extend over parts of Winston and Ma-

geologist of Alabama puts the coal deposits of Walker at 5,000,000,000 tons, more than equal to the present production of all Alabama mines for 350 years. The highest production of Walker mines yet reached was in 1907, when 3,244,000 tons ere mined. The mines around Jasper, at Cordova, Oakman, Corona, Patton, Parrish and other points are all now running large forces of men, and the opening of new mines is contemplated. There is a proposition to build a belt line to connect the Black Crow Coal Co.'s property, on the Frisco road, and other properties with Jasper, and with the Southern and Northern Alabama roads.

Rich as Walker county is in coal measures, it is little, if any, better favored by nature than Franklin county, with its brown-ore deposits, which are said to extend over 46,000 acres. As yet companies owning ore lands have developed but a very limited area. Only two companies have so far mined ore in this field, and both of their mines were closed down during the financial depression. The Sloss-Sheffield Company is again shipping ore to its Sheffield and Birmingham furnaces, sending out about 1000 tons a day. The Sheffield Coal & Iron Co. is now placing its raines in shape to resume shipments. It will ship about 500 tons daily at the open-Within the last six or eight months ing. considerable activity has been shown in ore lands. The Russellville Iron Ore & Metal Co., a new corporation in which are Birmingham and other investors, has purchased several hundred acres of ore property immediately adjoining the western limits of the town. A syndicate headed by the McCormicks of Harrisburg, Pa., has bought 1000 acres a few miles farther

The Rockwood quarries, reached by a spur track from Darlington station, have been consolidated and passed into the hands of the Foster, Creighton & Gould Company. These quarries are now shipping quantities of building stone and about 600 tons of flux daily.

Along the line of the Northern Alabama several new sawmills and woodworking plants have either recently been built or located. The latest is a hub and spoke factory, for which a site has been secured at Jasper.

The agricultural development of this region is noticeable. The main products of the region have been corn and cotton, though some wheat has been produced, a little attention paid to stock and poultry. and crops of fruit and vegetables, with now and then a field of tobacco for home use, have been grown. The value of the section as an agricultural region has perhaps never been understood, and for this reason Northwest Alabama has remained one of the least developed portions of the South. The varied soils are nearly all productive. The valley lands are firstclass, and the hill lands, with their gravelly soil, are now recognized as unusually fine for fruit. Within the past five years there has been into the region a movement by farmers and fruit growers from Georgia and other States, with a few from the North. These people have largely bought the low-priced farms. At many points they have made some of the best improved places in the South. While the country is elevated, a spur of the Sand Mountains, and often broken, the large proportion of the entire region, probably 80 per cent., lies so it can be farmed to advantage. It is a remarkable fact that in this territory, a few miles from the railroad, good lands can still be purchased at from \$2 to \$5 an acre, while adjacent to the towns and the railroad improved and partially improved farms can be had at from \$8 to \$25, and these are lands which rion. A conservative estimate by the State | are very productive. With diversified | sideration the low stage of the coal mar- | yam pic sets forth on its triumphant

farming the region will be one of the most prosperous agricultural territories in the whole South. For one thing, it is a good grass country, and many of the lands make fine crops of hay. There are few sections whose climate is more favorable to agriculture or fruit-growing, few so well watered. Streams are abundant, and springs are found everywhere throughout the whole region. It is said there is not a single 40-acre tract in all Winston county without one or more large springs. Though no particular attention is paid to stock and poultry, Jasper, Russellville and other places ship very considerable quantities every year. Russellville now ships poultry to Memphis, Nashville, Birmingham, New Orleans, Mobile and Tampa,

The most conspicuous development of the past few years has been in fruit and truck growing. Five years ago small commercial orchards were set out, and each year since there have been additions. This year the first car lots of peaches and potaoes were sent to Northern markets. With Haleyville as a center, this region has now about 200,000 peach trees and a number of apple orchards, and this coming season there will be set out, under the super vision of the Western Alabama Fruit and Vegetable Growers' Association, about 250,000 additional trees, and a large acreage will be planted in potatoes, tomatoes and cantaloupes. For many years peaches have been grown here, and practically without a failure in the crop. This year, while nearly all other peach districts in the country had small yields, there was a

Along with the fruit and truck industry, the canning industry has been introduced. There has been built at Haleyville a plant, which is now in operation, and another is under construction at Phil Campbell.

In Walker county and in other communities in this region model farm plots, devoted to cotton and corn, are being cultivated this year under the direction of the United States Department of Agriculture. One of the best evidences of the future development of the territory is the fact that the farmers are anxious to adopt improved methods of agriculture.

INTO THE COAL FIELDS.

Railroad Acquisitions and Plans for Extensions in Kentucky.

[Special Cor. Manufacturers' Record. Barboursville, Ky., July 26.

A deal of importance to the coal develop ment industry in this section of the Kentucky-Tennessee-Virginia fields was the purchase of the Straight Creek Railroad, in Bell county, by the Louisville & Nash ville Railroad. By this deal the Louisville à Nashville comes into possession of all of the Straight Creek Railroad extensions except the extension up the left fork of Straight Creek, that line being owned by different coal companies.

The Straight Creek Railroad for several years has been one of the most important 'feeders" to the Louisville & Nashville in the coal fields. Some of the largest mines in the State are located up the valley of Straight Creek, and a large tonnage is drawn from that section. The Louisville & Nashville, it is stated, will immediately make extensions of the line up the right fork and open a valuable undeveloped field which has been in possession of coal operators for some time. Engineers are now in the field making surveys, and it is prob able that the work of extending the line will be started at an early date.

The Straight Creek field is now largely under development by Kentucky capitalists. The district is located in Bell county, and the various mines have had an excellent business this summer, taking into con-

valuable railroad extension, about which little is generally known, is now in course of construction up the Cumberland River Valley into Harlan county coal fields, Southeastern Kentucky. This line,

ket and the general industrial depression.

known as the Wasioto & Black Mountain Railroad, branches from the Louisville & Nashville at Wasioto, Bell county, and when completed will extend 18 or 20 miles. About half the line is complete, and the work of building the remainder is progress-

ing satisfactorily.

Harlan county, Kentucky, is one of the richest sections of the South in coal depos its, but no railroad has yet been extended into that section because of geographical conditions. The prospects are now bright for an early development of the vast coal fields of the Black Mountain territory, the Wasioto & Black Mountain extension being only one of a number of projects designed with a view to opening the coal resources of the county. Some years ago a survey was made for a railroad from a point on the Chesapeake & Ohio, in the Big Sandy Valley, through the Pound Gap region into upper Harlan county, coming down Poor fork and opening that territory from the north. This week a party of engineers is going over this old route, and it is stated that estimates will now be made regarding the cost of making this exten-

While railroad extensions are being surveyed into undeveloped regions coal operators in the established fields of both Kentucky and Virginia have been hard hit by the prevailing dullness in the coal trade. The operator who has kept his plant in operation without interruption this summer is an exception. Most of the mines have been idle a part of the time, and in a few instances some have closed altogether. The Virginia operators and those on the Tennessee side, generally speaking, have been more fortunate than the Kentucky operators. On the Kentucky side a large part of the production is marketed for domestic purposes, while much of the Tennessee and Virginia product is used for steam and coke. The Claiborne county (Tennessee) mines, centered in the Mingo Hollow district, are now having a fair run, and conditions are improving. At the big Virginia plants, especially in the Stoega and Appalachia districts, normal conditions are gradually returning, and Kentucky operators report some improvement. It is believed that the worst stage has been passed, and a general increase in tonnage, with gradually increasing prices, seem to bear out the opinion.

W. S. Hudson.

CUT-OVER PINE LANDS.

Their Availability for Crops in South Mississippi.

[Special Cor. Manufacturers' Record.] Wilmer, Ala., July 26.

The pine belt lands of South Mississippi are capable of producing crops that are far more profitable than cotton. There are two food crops that grow to perfection on these lands, and when their merits are once recognized by the "insatiable" North and West, none will be left for the Mississippians. I refer to the "yams" and the fancy ribbon cane syrup. The following prose ode to the "yam," written by a Northern gentleman and clipped by the Mobile Register from the St. Louis Globe-Democrat, serves to show how this popular product is appreciated when its merits have been tried:

"But Atlanta is not wholly and suddenly a replica of other metropolises. It has something no Northern city has; it has yam pie. Go put the much-vaunted pumpkin pie on the farthest and most obscure shelf in the buttery. When once

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Alexandrian tour of world conquest the pumpkin pie will realize the feebleness of its long overestimated charms. Why the yam has been kept in seclusion, buried olive by the inhabitants of South Carolina and Georgia, where it flourishes in its chosen and grateful soil and its virtues and glories have remained unsung either by Uncle Remus or Frank Stanton, can be accounted for only through a conspiracy. If the Georgia yam is ever discovered by the greedy and insatiable North, none will be left for the Georgians. Not only in the fragrant pies, all golden brown, coes it appeal to the soul of man, but in every other form-boiled, baked, stewed, mashed and 'candied.' Why the Creator asted any time on sweet potatoes after He had once turned forth such a masterpiece as the yam is one of those infinite mysteries not given to us to know.

The writer has long contended that were the Northern farmer able to produce this crop the Southerners, though living in a section where it "flourishes in its n and grateful soil," would be buying it in car lots manufactured into some form of breakfast food or table delicacy. As stated above, all that is required to have its merits recognized is to have it "discovered" by the "Insatiable North," put in some large steam canneries and get in a class of farmers that appreciate a 'good thing" when they see it. To illustrate the possibilities of this crop, the writer has often seen as much as 400 bushels of vams produced from one acre of lend, and 300 bushels is considered only a fair average crop. In one instance, near Lucedale, Miss., last fall one farmer harvested at the rate of 650 bushels per acre. As to profits in canning the yam, one bushel will pack from 23 to 25 No. 2 cans; the farmer would gladly contract to furnish these yams at 50 cents per bushel delivered at cannery; No. 3 canned yams are worth today 80 cents per dozen f. o. b. shipping point; figure out the profits for

What is true of the yam is also applicable to the ribbon cane syrup industry, if properly managed, in this section. According to reports of the Agricultural Department at Washington, canes grown upon the pine lands of the South are 20 per cent, richer in saccharine matter than that grown upon the heavy black lands of When it is understood that there are no large steam mills operating in this section, and the old crude and wasteful method, the pine-knot evaporator and the one-mule mill, is still practiced, and when it is known that even though manu factured in this primitive fashion, a yield of from 400 to 600 gallons per acre is nmon, the possibilities of this crop will be better understood. Again, according to the same authority, by actual field tests behind the horse-power mills, it is claimed that by this method only about 70 per cent, of the juice is expressed from the canes, the balance, or 30 per cent., being wasted. Had our St. Louis friend "discovered" a sample of the fancy table syrup made even in this crude and wasteful way, his ode to the "cane" would have been fully equal to that of his to the

What this section needs to make it blossom like the rose and to develop its latent resources is, along with a thrifty class of farmers, men of capital who will erect large steam cane mills and potato canneries combined, and buy of the farmer his raw material at a price both profitable to grower and manufacturer alike, make a uniform grade of goods and introduce them on the great Northern markets; go into the large cities and give public demonstrations of the merits of the goods. There need be no fear of the results. With a section where a man may work every day. Farmersville, secretary and treasurer.

in the year, so far as climatic conditions are concerned, blessed with an abundance of pure water, plenty of fuel, where irrigation is not needed to produce bountiful crops, it is strange that so many people seeking homes in the South will overlook all these advantages. But it is only a uestion of time when the merits of the nine belt section of South Mississippi will be fully recognized. That which afforded a livelihood for the natives in the past is fast disappearing, and soon only blackened heaps of sawdust will remain, a reminder of conditions that were. But the passing of the stately pine will also see the pass ing of the little cabin, with its nomadic occupant, living here today, elsewhere tomorrow, not having a fixed abode long enough to establish schools or churches occupying the land but not tilling it. But the soil denuded will be clothed again. Instead of the stately pine, we will have the fruit tree and the vine, and instead of the sage field, green fields and luxuriant vegetation. Stately farmhouses will replace the cabin, and churches and schoolhouses will minister to our spiritual and temporal welfare. Then, and not until then, will the South be not considered poor H. H. BOLTON, and ignorant.

Immigration Agent Mobile, Jackson & Kansas City Railroad Co.

Alabama Association.

President John Craft and Secretary J. A. Rountree have issued a call for the annual meeting of Alabama Good Roads Association at Birmingham, October 14 and 15. The membership of the association is composed of the probate judges, county commissioners and boards of revenue of each of the 67 counties of Alabama, together with 12 delegates from each county appointed by the probate judges. Every mayor in the State has been invited to attend, and the commercial bodies have been requested to send delegates. The meeting promises to be largely attended, and over 2000 delegates are expected to be present. The Board of Trade of Birmingham invited the association to convene in Birmingham, and it is arranging all the details to make the meeting a great one. The convention promises to accomplish much good for the advancement of good roads in Alabama. Distinguished speakers and advocates of good roads of national reputation are expected to be in attendance. The officers of the association are John Craft, president, Mobile; W. M. Drennen, vice-president, Birmingham; J. A. Rountree, secretary-treasurer, Birwingham; John Crift, W. M. Drennen, J. A. Rountree, H. K. Milner, Hawthorn; Samuel Jenkins, Bay Minette; H. M. Wilson, Opelika; V. B. Atkins, Selma; J. W. Overton, Wedowee; J. H. Bankhead, Jasper; R. A. Mitchell, Gadsden; Wm. E. Skeggs, Decatur, and Oscar Urderwood, Birmingham, executive committee.

New York-Atlanta.

The route for the good road and reliability automobile run from New York to Atlanta in October has been announced as follows: Leave New York, pass through Perth Amboy, Philadelphia, Gettysburg, Lexington, Roanoke, Greensboro or Winston-Salem, Salisbury, Charlotte, Spartanburg, Greenville and to Atlanta, The distance is 1135 miles.

Upon 100 acres of sand hill land near Darlington, S. C., costing \$4 per acre, L. E. Carrigan has 1600 peach trees, yielding on an average from \$7.50 to \$15 each.

The Association of Texas Mayors elected last week. W. D. Davis of Fort Worth, president; C. N. Baldwin of Stephenville, first vice-president, and J. T. Lacy of

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WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Elizabethton, Tenn. - City; \$30,000 onds for streets and sewers.

Newbury, S. C .- City; \$300,000 bonds for road construction.

Bonds to Be Voted.

Key West, Fla.-City will vote bonds for street paving.

Mulkey, Okla. - Wilson township of Carter county; \$10,000 bonds for road onstruction.

Spartanburg, S. C. - Spartanburg ounty, \$400,000 bonds for road construc-

Contracts Awarded.

Bessemer, Ala.-City awarded contract to C. M. Burkhalter & Co., Birmingham, for sidewalk, curbing, etc., to cost \$3700.

Chattanooga, Tenn.-Noll Construction Co. lowest bidder at \$200,000 for constructing five miles of chert roadway with cement curbs and gutters.

Gadsden, Ala.-City awarded contract to Graves-Matthews Paving Co. at \$41,-040 for 22,000 yards granite curbing and at \$40,128 for concrete curbing.

Lexington, Ky.—City awarded contract to C. C. Miller & Co., Latonia, Ky., to pave North Limestone street with brick and pitch filler.

New Orleans, La.-W. H. Douglas lowest bidder at \$5000 for paving Charters street.

Sanford, N. C .- City awarded contract to Grantham & Sutton, Greensboro, N. C., for constructing concrete sidewalks.

Towson, Md.-Baltimore County Commissioners awarded contract to P. Flannigan & Sons, Baltimore, to pave 1st street in Canton with vitrified brick on oncrete base.

Contracts to Be Awarded.

Atlanta, Ga.-City opens bids August 9 for paving Decatur street with wood block. Atlanta, Ga.-City opens bids August 9 for 22,000 square yards of paving with wooden blocks on concrete foundation on Decatur street; also 23,000 square yards of same materials on Madison avenu

Baltimore, Md.-City opens bids August 4 for grading, curbing and paving Stag alley with vitrified blocks.

Beaumont, Texas.-City opens bids August 3 for 4120 square yards vitrified brick paving and 2873 linear feet concrete curb-

England, Ark .- City opened bids during the week for eight miles of concrete sidewalks.

Franklin, La.-City opens bids August 5 for constructing 65,000 square feet cement sidewalks and 32,500 square feet brick curbing.

Greensboro, N. C .- Guilford county will macadamize 16 miles of road.

Jonesboro, Ark.—City will expend \$76,-000 for street paving.

Louisville, Ky.—Board of Public Works opens bids August 5 for vitrified brick paving and guttering costing \$5000 on certain streets.

Marianna, Ark.-City opens bids August 5 for 13,400 square yards vitrified block paving on concrete base and 4000 linear feet concrete curb.

Memphis, Tenn.—City opens bids today for paving several streets.

Montgomery, Ala.—City opens bids August 2 for paving various streets at a cost of \$56,450.

Nashville, Tenn. - Board of Public Nashville in September.

square vards granitoid sidewalks.

New Orleans, La.-City opened bids July 27 for paving City Park avenue with mineral rubber asphalt: estimated cost

North Birmingham, Ala.-City opened bids July 27 for grading, macadamizing, laying concrete sidewalks and gutters, etc., on certain streets.

Pensacola, Fla.-City opened bids July 27 for construction of clay and cinder

Portsmouth, Va.-City opens bids August 5 for constructing 435 square yards concrete sidewalks and 1100 square yards granite block gutters.

Richmond, Va.-State Highway Commissioners open bids August 3 for constructing two miles of macadam.

Tulsa, Okla. - City Commissioner open bids August 2 for 43,000 yards or 39 blocks of asphalt or bitulithic paving.

Vicksburg, Miss.-City opens bids Sep tember 6 for paving Cherry street with asphalt, bitulithic or other material.

West Blocton, Ala.-City opens bids July 30 for certain grading, curbing, macadamizing and brick gutters.

By Individual Enterprise.

James S. Sexton, Hazelhurst, Miss., writing to the MANUFACTURERS' RECORD in reference to plans for building a good road from the town of Hazelhurst to the Rockport road, some four miles east of that place, says:

"This is an individual enterprise growing out of the desire of the people living upon the Georgetown public road in this county to have a first-class road for the benefit of the public and for their own convenience. We estimates that it will take about \$2500 to do the work, and we expect that amout to be raised in the main by private subscription, though we expect some assistance from the county and the town of Hazlehurst. The plan is to put the dirt road, which has a clay foundation, in perfect condition and to place thereon a coat of clean gravel not less than six inches thick. This gravel consists of small rocks, and is found in abundance along the line of the road, and when it is spread on the clay roadbed experience has demonstrated that it lasts indefinitely and makes a delightful road."

Notes.

Sixteen and a half miles of roads in the vicinity of Greensboro, N. C., are to be macadamized shortly at a cost of about \$3000 per mile.

The Tallapoosa Rural Letter Carriers' Association, R. H. Carlisle of Alexander City, Ala., president, has taken up the movement for good roads.

Governor Donaghey of Arkansas will, it is announced, support the plan for the construction of a State turnpike to connect with one in Missouri, giving an automobile drive from St. Louis through Arkansas to the Texas line.

Automobile owners of Virginia plan a demonstration on the State fair grounds at Richmond, August 17 and 18, to raise funds to be placed at the disposal of the Good Roads Association in promotion of improved highways.

Col. John Thompson, Tennessee Commissioner of Agriculture, will be requested to name about 100 delegates to attend the Good Roads Convention which has been called by Governor Patterson to meet at

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RAILROADS

[A complete record of all new railro building in the South will be found in the Construction Department.]

MIICH RETTERMENT WORK.

sas City Southern Will Reduc-Grades, Improve Alignment and Erect New Buildings.

A report from Kansas City says that about \$1,000,000 will be expended by the Kansas City Southern Railroad for cutting down grades. The line from Bunch, (kla., to Houston, Okla., 73 miles, will be reduced from 11/2 per cent. to half of 1 per cent., and to improve the alignment seven or eight miles of new track will be built, making changes from the present Between DeQueen, Ark., and Shreveport, La., 125 miles, about 10 miles of new construction will be put in to improve the line, and grade reductions will also be made. President Edson is reported as saying that when the improvement work is completed 85-pound rails will have been laid on the entire system, concrete or steel bridges will have taken the place of wooden tridges, and every mile of track will be improved by reballasting. At present 41 per cent, of the track is cut down to half of 1 per cent, grade, and the rest will be brought to that standard.

It is further said that \$250,000 will be spent at the Kansas City terminals. A tow freighthouse will be erected and increased shop facilities will be provided. Three new industrial tracks will be laid. This latter will open up considerable land for new warehouses, and will afford better facilities for handling present freight. At Pittsburg, Kans., and Shreveport, La., shop facilities will be enlarged, and, as heretofore reported, \$350,000 will be spent for warehouses and improved dock facilities at Port Arthur, Texas. Ballasting. additional passing tracks and new tracks at the terminals will cost \$500,000.

New Equipment, Rails, Etc.

The Nashville Interurban Railway has ordered from the J. G. Brill Company, Philadelphia, an electric passenger car and also an express car.

The Texas Traction Co., Dallas, Texas, is in the market for four high-speed passenger cars.

The St. Tammany & New Orleans Railway & Ferry Co., Covington, La., is reported to have received two motor cars from Hotchkiss Blue & Co. of Chicago, operated by 30-horse-power low-pressure engines of the White steamer type.

The Pensacola Electric Co. has purchased 10 carloads of 70-pound steel rails.

The Laurinburg & Southern Railroad, Laurinburg, N. C., will, it is reported, purchase a locomotive and passenger car. John F. McNair is president.

The Pennsylvania Railroad, it is reported, will either build or buy this year 250 or 300 steel passenger cars.

The Atchison, Topeka & Santa Fe Railway, according to a report, has ordered 4! baggage cars from the American Car & Foundry Co., St. Louis.

The Atlantic Coast Line is reported to have let contracts to the Barney & Smith Car Co. of Dayton, Ohio, for 500 double felt-lined ventilated 30-ton box cars, and to the Pressed Steel Car Co. of Pittsburg for 25 40-ton hopper-bottom phosphate

New Lines Chartered.

The Arkansas, Oklahoma & Paris Railway Co, has been chartered in Arkansas to build a railroad from Morris Ferry, in the northern part of Little River county, into Oklahoma, and thence southwest into Texas. The capital is \$250,000, which is partially subscribed. The first part of the

route projected is from Morris Ferry, on the Kansas City Southern Railroad, westward 15 miles to Moon, Okla., on the St. Louis & San Francisco Railroad, and from there southwest 22 miles to Harris Ferry, on the Red River; total, 37 miles. It is ultimately proposed to extend the line to Paris, Texas. The incorporators are P. S. Brown and W. S. Pryor of Kansas City, J. M. Johnson, A. D. Dulaney and W. E. Kinsworthy of Ashdown, Ark.

The Crossett Railroad Co., capital \$25, 000, has also been chartered in Arkansas. It has a line 10 miles long, extending westward from Crossett, on the Iron Mountain division of the Missouri Pacific, and may build an extension. The incorporators are E. W. Gates, A. Trieschman, J. C. Norcott, C. W. Gates and E. S. Crossett.

Kingsport and Greenville Road.

Leroy Park & Co., Greenville, Tenn. write that there is not as yet any organized company to build the proposed railroad from Kinsport, Tenn., through Green county to French Broad River, but that the length of the route is about 60 miles. Only preliminary surveys have been made and they show light work, good grade and only one tunnel. There will be two river bridges. The survey is through a rolling ountry. Projected lines of the Norfolk & Western, the Carolina, Clinchfield & Ohio and the Southern Railway, some under construction, would connect with the road.

The region through which the line has been surveyed is rich in timber and iron. as well as being a superior farming and gardening country. For 20 years the citizens of Green county have desired such a road, attempting to secure it when there was no trunk line connection at either end, but now that the Carolina, Clinchfield & Ohio Railway, with its many connections, is within so short a distance, the people feel that there is only one possible way to attain their fullest material development, and that is by building the line. Efforts are being made to finance the en-

Central's Shops at Macon, Ga.

The Central of Georgia Railway Co. is making progress with its work at Macon, An officer of the company writes:

"The car shop, repair tracks, powerhouse, reservoir, high service tank with pumping station have been completed; the engine terminal is well under way, and should be finished by September 1; the balance of the work is being contracted for as rapidly as possible, the American Bridge Co. having been given the contract for structural steel. The erecting shop will have 22 pits, with ample machinery to properly do the work, supported by boiler and blacksmith shops of suitable The estimated cost of the dimensions. work is \$1,500,000. Mr. C. K. Lawrence chief engineer of this company, is in charge of the work, and entire plans are being prepared under his direction."

Through Oklahoma Mountains.

The King Lumber Co., Eubanks, Okla., writes that it contemplates building a railroad about 15 miles long from Eubanks through a mountainous country to Johns Valley. The survey has just been completed, but it is not yet decided whether the project is practical. If built, the line will probably be a private road owned by the lumber company. Connection will be made with the Frisco system at Eubanks. D. W. Spooner of Joplin, Mo., is engineer.

Articulated Compound Locomotives.

The American Locomotive Co. has issued a pamphlet, No. 10,034, presenting a complete description of the articulated compound locomotive, a paper read by C. J. Mellin, consulting engineer of the company, before the American Society of Mechanical Engineers. The description of this engine is devoted to its characteristic features, and there are line drawings of details as constructed by the company. There are also given line cut illustration of side elevations of different designs of articulated compound engines, including two preliminary designs for passenger ser vice. In addition to these are some halftone illustrations of several locomotives of this type built in this country, the pictures being accompanied by data relating

Sanford to Kissimmee.

The Central Florida Traction Co., acording to a dispatch from Orlando, Fla. is the name of the enterprise which prooses to build a railroad from Sanford via Winter Park and Orlando to Kissimmee 45 miles. The preliminary organization shows the following officers: M. O. Overstreet, president; D. B. T. Bennett, first vice-president; Dr. J. H. Smith, second vice-president; W. A. Smith, treasurer; L. L. Payne, secretary; A. N. McKinley, eneral manager; directors, E. F. Sperry A. McCallum, Dr. B. A. Howard and T. P. Warlow, who is also attorney. J. P. Hornaday and W. A. McClintock of New York are also said to be interested.

It is contemplated to operate the line with gasoline motor cars.

Brady to San Antonio.

W. B. Drake, vice-president and general uperintendent of the Frisco system at Fort Worth, Texas, is quoted in a report from that city as saying that the company intends to build a new line from Brady, Texas, southward toward San Antonio and that survey will begin immediately, equipment for the engineers having been forwarded for the work.

This line has been talked of for several years, and it is said that its construction will demand some of the most difficult railroad work ever attempted in Texas. There is a hilly country south of Brady which is expected will be difficult for permanently locating the route.

Nashville Interurban Is Busy.

The Nashville Interurban Railway, which vas built by H. H. Mayberry and others between Nashville and Franklin, Tenn. about 18 miles, is now reported operating 26 trains a day, or 13 in each direction. President Mayberry is quoted as saying that the company is now having built at the works of the J. G. Brill Company. Philadelphia, another passenger car and an express car; also that about 60,000 passengers have been carried in the past three months. The line is now being ballasted with stone, and this work will soon be completed.

Only a Tentative Plan.

Concerning the report that the Atlanta & West Point Railroad would build a line from Sofkee to Macon, Ga., independently connecting the Macon & Birmingham Railroad with that city and making a through route from Montgomery and other Alabama points to the Atlantic Ocean via the Macon, Dublin & Savannah Railway, an official writes that there is nothing definite to be said at present. Some inquiries have been made looking to such result, but they are only tentative.

Receiver Appointed.

James F. Weed of Beaumont, Texas, has been appointed receiver for the Beaumont Traction Co. by the United States Circuit Court at Sherman, Texas, on the application of the Interstate Trust & Banking Co. of New Orleans, trustee for the bonds. It appears that the city of

Beaumont was about to take action to forfeit the franchise of the railway company, and a representative of the trust company is quoted as saving that the appointment of a receiver was necessary to protect the interest of the bondholders.

A Mineral Belt Railroad.

The St. Louis & Houston Mineral Belt Railroad Co. has been chartered, according to a dispatch from Jefferson City, Mo. The company has a capital of \$400,000, and proposes to build a line between Houston and Cabool, Mo., about 16 miles, all in Texas county. The stockholders are A. H. Johnson of Springfield, Mo.; M. G. Coyle, A. E. Leavitt, Clark Dooley, Robert Lamar, W. T. Elliott; C. F. Speak, R. A. Harrington, E. K. Lyles, all of Houston, Mo.

Erecting Railway Buildings.

The Quanah, Acme & Pacific Railroad of Quanah, Texas, according to a report from that place, is about to build two new depots there, besides car sheds, a building of solid concrete walls 50x50 feet; a roundhouse of concrete, 70x140x90 feet; shops, 40x90 feet, the latter adjoining the roundhouse. A contract has been let also for two oilhouses. Work is to be rushed on depots at Lazare, Swearingen and Paducah, Texas. John R. Southern is superintendent of buildings and bridges for the company.

Virginian to Build Branches.

The Virginian Railway, according to a eport, will build several branches in Raleigh county, West Virginia, for developing coal lands. The total length of these lines is about 28 miles. They are as follows: Stone Coal branch, three miles; Laurel Fork extension of the former, three miles; Devil's Fork branch, six miles; Upper Stone Coal branch, two miles : Tommy Creek branch, four and three-quarters miles; Piney Creek extension of Winding Gulf branch, eight miles. The Devil's Fork branch extends partly into Wyoming county.

Six Changes of Line.

The Kansas City Southern Railway will ake some changes of line between Stillwell, Okla., and Neame, La. The work is in six pieces of from three to eight miles in length, and the total is 27 miles. Rids are to be opened July 29. W. D. Hodge. Mena, Ark., is engineer in charge; A. F. Rust, Kansas City, Mo., is resident engi-

Railroad Notes.

The Carolina, Clinchfield & Ohio Railway has issued a new timetable, which took effect July 25.

L. H. Mann has been appointed solicitng agent at Chicago, Ill., for the Southern Railway, vice E. F. McKee, resigned to eccept service with another company. This change take effect August 1.

The Frisco system is reported to have begun extensive improvement work on the line between Monett and Oklahoma City, Starting near Tulsa, Okla., and working toward Monett, which is in Missouri, 146 miles, trestles are to be filled in and grades reduced. Besides this, 85-pound rails will Le laid between Tulsa and Afton.

Planting Potatoes.

Mr. J. A. Rowand of Elkton, Fla., informs the Manufacturers' Record that at Elkton, which is a new station in the Hastings potato belt on the Florida East Coast Railway, about 300 acres was planted in potatoes this spring, and that more than 300 acres will be cleared this

Tu

MINING

The Winding Gulf Colliery Co.

The MANUFACTURERS' RECORD has received further information regarding the plans of the Winding Gulf Colliery Co., 1503-13 Union Trust Building, Cincinnati, mentioned last week as to develop 3300 seres of coal land in Raleigh county, West Virginia. The designing and construction of the company's proposed tipple and its equipment will be in charge of F. C. Greene, Republic Building, Cleveland, Ohio, who will also be in charge of the construction and equipment of the fanhouse. Messrs. Keller & Sibley, electrical engineers, Charleston, W. Va., will have charge of the construction and installation of the boiler plant and electrical equipment. Boilers of 1200 horse-power will be installed, with proper heating equipment, and probably 800-kilowatt generators in four units, with switchboards and steam pipe line connections with wiring, The company will purchase a large number of mine cars, probably of steel construction, electric locomotives, mining machines and other machinery and equipment. Its officers are Justus Collins, president, Cincinnati; J. A. Renahan, vice-president, New York; J. S. Berry, secretary and treasurer, Cincinnati, and A. M. Herndon, superintendent, Abney,

To Develop Kentucky Coal Lands.

According to authentic information received by the MANUFACTURERS' RECORD, the development of coal properties in Kentucky will probably soon be undertaken by new company to be organized for this purpose. The Sterling Company of Louisville, it is stated, acting for local and Eastern capitalists, has purchased a portion of the holdings of the Brasher Coal Co. of Madisonville, including the Oak Hill mine near Nortonville, and about 5000 acres of other coal lands belonging to it and John B. Brasher, for \$250,000. In a few days, it is stated, the purchasers will organize the Hopkins County Coal Co., with a capital stock of \$250,000, to over and operate the property. The Oak Hill mine is located on the Louisville & Nashville Railroad, and is within one mile of the Illinois Central Railroad. It is said to be the purpose of the new company to construct a railroad switch connecting the two lines, and also to purchase other coal lands for development in the near future.

Big Development Near Anniston.

Details of the organization of a company to develop extensive mineral deposits and timber lands near Anniston, Ala., are be ing completed by Capt. R. F. Kolb of Anniston. Captain Kolb telegraphs the MANUFACTURERS' RECORD that the title of the company is the Shinbone Valley Iron Timber Co., and it is capitalized at \$600,000. It has acquired brown ore, manganese, graphite, mica and kaolin properties in Shinbone Valley and 25,000 acres of virgin timber-nearly all long-The company will conleaf yellow pine. struct a railroad 16 miles long from Abel to Pyriton, on the Atlanta, Birmingham & Atlantic Railroad, and may later extend from Abel to De Armanville, on the Southern Railway. J. D. Hunter is the engineer in charge. Those associated with Captain Kolb include O. M. Alexander of Anniston, W. B. Davidson of Montgomery and P. M. Clark and C. W. Huffman of Lebanon, Tenn.

To Develop Georgia Iron Ore.

Among recent reports of new Southern industrial enterprises is the announcement that the Pigeon Mountain Iron Co. has been organized at Atlanta with a capital perintendent.

stock of \$500,000 to develop iron-ore deposits in North Georgia. It is stated that the company has secured 4000 acres of mineral lands in Wasker county, located about 18 miles from Chattanooga and five miles from Chicamauga, being accessible to the lines of the Central of Georgia and Chattanooga Southern railroads. It is estimated to contain 60,000,000 tons of ore readily available, about 50,000,000 tons of which is said to be hard ore, while not less than 7,500,000 tons is soft ore, carrying over 50 per cent. metallic iron. To begin operations the company proposes to issue \$90,000 first mortgage 5 per cent. gold bonds, \$100,000 7 per cent. cumulative preferred stock and \$350,000 common stock, the shares to be \$100 par value. Its officers are J. C. Haas, Montgomery, Ala., president: R. E. Watson, Atlanta, vice-president, and Edwin R. Haas, Atlanta, secretary and treasurer.

Lead and Zinc Development.

The Red Cloud Zinc Co. of Rush, Ark., which recently incorporated with a capital stock of \$50,000, informs the Manufac-TURERS' RECORD that it will continue the development of its zinc properties on Buftalo River in Marion county, Arkansas, The property consists of 645 acres of mineral land, including a water-power capable of development to a maximum of 30,000 horse-power. The zinc deposit analyzes from 60 to 66 per cent. metallic zinc, with a slight amount of iron. In addition to the mill which the company has in operation, it is expected to install other mills to facilitate development work. The capacity of its mines is 400 tons per 24 bours. Its officers are Isaac Reese, president; P. Koehler, vice-president and general manager; Charles Le Vasseur, mining engineer and superintendent, and D. O. Wheeler, secretary and treasurer.

Mining Notes

The West Kentucky Coal Co. of Sturgis, Ky., is reported to have closed contracts to furnish 600,000 tons of coal for shipment to Panama.

Browns Creek Land & Coal Co. of Welch, W. Va., has incorporated with a capital stock of \$100,000. Its incorporators are John H. Holt, Huntington, W. Va.; Howard H. Snyder, Media, Pa.; Herman Wendell, Wayne, Pa.; Morris Williams, Philadelphia, and others.

The Consolidated West Virginia-Ohio Coal Co. of Charleston, W. Va., has been incorporated with a capital stock of \$100,-000 by E. Dale Field and James H. Field. both of Uniontown, Pa., and Charles E. Wilson of Dunbar, Pa.

Will Increase Operations.

It is announced that the Thompson Bros. Lumber Co. of Houston, Texas, bas increased its capital stock from \$600, 000 to \$2,100,000 and has purchased 500. 000.000 feet of pine timber in Trinity county. The company, it is said, will erect at once a sawmill to cost \$300,000 and of 100,000 feet daily capacity, to be ready for operation within six months. It is also reported that it will erect 250 tenant-houses for the use of its employes,

Will Establish Sawmill.

The Deer Creek Lumber Co. of Cass W. Va., which recently incorporated with capital stock of \$75,000, informs the MANUFACTURERS' RECORD that it will rect a mill construction building at a cost of \$15,000 for sawmill purposes and equip it for a daily capacity of 50,000 feet of lumber. Officers of the company are J. F. Torbert, president; L. T. Brandon, secretary, and C. S. Harter, treasurer and su-

LUMBER

[A complete record of new mills and buildoperations in the South will be found in nstruction Department.]

Memphis Lumber Market.

[Special Cor. Manufacturers' Record.] Memphis, Tenn., July 26.

Further inquiries and more frequent rders for solid carloads of lumber stock re giving additional strength to the market. Many mills are still out of operation. but stocks on hand are sufficient to meet normal requirements, and if the building situation continues as good as at present there will be a resumption of mills before fall. In this city building ran \$250,000 for the first six month this year above that of last year. The yellow-pine trade here is a little more active. Eastern business on ash is picking up. Poplar in the best grades has advanced a dollar or two. Gum in the thicker grades shows improvement. No change appears in export conditions, which are only fair.

Railroad construction work, municipal and private undertakings of large scope ere going forward with good zest. couple of tall office buildings will be rected in Memphis this year. Several railway lines have been projected in Arkansas anew. In Mississippi many of the mills are closed down, but all the towns and cities report healthy building activi-

Sawmill Construction Progressing.

The MANUFACTURERS' RECORD has received information regarding the progress of the E. B. Williams Cypress Co., Ltd., on the construction of its new sawmill at Patterson, La. The plant will be built entirely of steel, and contracts for all material and equipment have been closed with the exception of an electric lumber carrier Contract for this will probably system. be awarded within two weeks. Besides auxiliary machinery, the sawmill will be equipped with two bands and a vertical resaw, furnished by the Filer & Stowell Company of Milwaukee. It will have a daily capacity of approximately 150,000 feet of lumber. Equipment for the powerhouse was supplied by the Casey-Hedges Company of Chattanooga. The company is experimenting with new methods of kiln-drying cypress, and if successful, instead of carrying stock on the yard and air-drying, it will kiln-dry from 60 to 80 per cent. of its production. It has installed an Aweco kiln, furnished by the American Wood Extract Co. of Seattle, Wash., and expects to make final tests within a few days. Officers of the company are E. B. Williams, president; C. S. Williams, vice-president, and L. M. Wilimms, secretary and treasurer.

Big Sawmill to Be Enlarged.

An important and interesting announceaent has recently been made regarding the plans of the Aripeka Sawmills of Fivay, Fla., for the enlargement of its plant at that place. According to a statement attributed to T. H. Martin, general manger of the company, it is intended to erect and equip two additional mills at an expenditure of about \$250,000 each, construction work to begin within six months and pushed to an early completion. The addition of the proposed mills will largely increase the facilities of the company whose present plant is one of the largest in Florida. It consists of two double-band mills with a daily capacity of 150,000 feet of lumber, planing mill of 75,000 feet daily capacity and other equipment, including 60 miles of tramroad. It was conscructed under the supervision of General Manager T. H. Martin, and, with the completion of the two new mills, will repre- A. Williams, treasurer.

sent an investment of \$1,500,000. The company's timber lands embrace about 250,000 acres of pine and cypress, extending from the vicinity of Tan:pa north to the Citrus county line.

To Manufacture Mahogany Products, Etc.

An important announcement has recently been made relative to the establishment at Tampa of a large mahogany and cedar sawmill and veneering plant. American Mahogany Co., through Thos. W. Troy & Co. of Tampa, is negotiating with the Seaboard Air Line Railway for a site and terminal facilities on Seddon Island. When the details of location have been decided it is expected to erect a steel and concrete plant of modern design and equipment to cost about \$250,000. In nnection with the enterprise Troy & Co. will inaugurate a steamship line between Tampa and Honduras to supply the plant with mahogany logs from Central America

Probable Timber Development.

Current reports from Bluefield, W. Va., state that R. H. Angell & Co. of Roanoke, Va., have secured 4000 acres of timber land on Laurel Creek, in Bland county, Virginia, and will erect a large band mill for development purposes. Regarding the enterprise the Hardwood Lumber & Mining Co., Roanoke, of which R. H. Angell is president, telegraphs the MANUFACTUR-ERS' RECORD that it is now negotiating for the sale of its 6000 acres of timber land but if it does not sell the company will creet two mills of 25,000 feet daily capacity each to develop the timber.

Testing a Kiln.

E. B. Williams Cypress Co., Ltd., Patterson, La., in a letter to the MANUFAC-TURERS' RECORD says:

"We have put in an Aweco kiln furnished by the American Wood Extract Co. of Seattle, Wash., and expect to make the final tests on same this week. sider the success of this kiln to be a most important event in the history of cypress manufacturing, and if successful it will be the means of a great saving of cost both in labor and lumber."

Increasing Its Logging Facilities.

It is announced that the Van Sant-Kitchen Lumber Co. has begun operations at its band mill at Moore's Branch, near Whitesburg, Ky., employing 100 workmen Under the supervision of J. L. Proctor of Vilas, Ky., who is the manager of the Plant, it is stated that the company will oon begin the construction of two miles of lumber road from the mill to the headwaters of Moore's Branch for logging pur-Communications should be addressed to J. L. Proctor at Vilas.

Kirby Company Will Rebuild.

The Kirby Lumber Co., B. F. Bonner. general manager, Houston, Texas, telegraphs the Manufacturers' Record that the company's plant at Browndel will be rebuilt. This plant was destroyed by fire last week at a loss of \$300,000, and it included a circular and band mill, drykilns. 12,000,000 feet of lumber, etc. The company will be in the market for a complete

Norfolk Builders' Exchange.

Organization of the Norfolk (Va.) Builders' Exchange was effected last week by the election of the following temporary officers to serve for a period of .30 days: E. D. Hobbs, president; George T. Banks, Frank T. Clark and Perry W. Ruth, vicepresidents; F. G. Boyd, secretary, and M. 900.

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Lumber Notes.

The Southern Mahogany Co. of Charles ion, S. C., has incorporated with a capital stock of \$200,000, and is reported as intending to erect a factory at Charleston.

The Mobile Timber Co. of Mobile, Ala., has incorporated with a capital stock of \$125,000, its incorporators being R. G. Haysen, M. C. Moore and Victor L.

It is announced that the Fairford (Ala.) Lumber Co., W. V. Terrill, superintendent, will construct a five-mile line of logging load from a tract of pine land which it was to the main line of the Tombigbee Valley Railroad, connecting near Loper,

FOREIGN LETTERS

The Manufacturers' Record is so widely read in foreign countries that we are in constant receipt of many letters from all parts of the world. Some of these letters indicate the disposition of foreigners to buy American goods, and are therefore of interest to our readers.

Fertilizers and Pumps for China.

T. J. League, Tsingtau, China, writes the MANUFACTURERS' RECORD:

"There is not much I can say as to the introduction of machinery into China, largely because the American manufaceems so utterly indifferent to conditions here. There are great possibilities, but the market must be developed by demonstration. It must also be followed up with persistence. Everything, too, needs to be of the simplest and strongest patterns. I have written to several manafacturers of pumps with reference to supplying simple irrigating pumps to be operated by hand. They send a lot of catalogues which are absolutely worthless, and offer their stock of pumps for sale for spot cash. If any manufacturer were willing to take the trouble to produce a very simple hand pump for raising water 15 to 20 feet and send half a dozen to a properly accredited person to place at as many points and make demonstrations, the prob abilities are that good business would follow. There is a crying need for some such thing. There is a wide area where there is abundant ground water within 15 feet of the surface, and the crops fail entirely for want of rain. Besides, there are thousands of vegetable growers who depend on irrigation, and some such instrument would be a great boon to them. But they must see it in operation before they will buy. There are possibilities of selling large quantities of chemical fertilizers. If you have seen the report of Consul Gracey of this port you will have my idea as to how that should be managed."

For Spinning and Weaving Mills.

Kinariyala Brothers & Co., 1523 Raja Mehta street, Ahmedabad, India, write the MANUFACTURERS' RECORD:

"We want prices and samples of leather pickers, varnished healds, reeds, shuttles, bobbins, spools, loom harness, spinningring travelers, American cotton yarns, twine and ropes, belt fasteners, and all the requirements of a spinning and weaving mill. We require sole selling agencies for these articles. Best American references given."

Wanted for Russian Trade.

H. Herwaser, No. 13 Nalewski street, Warsaw, Russia, writes the Manufac-TURERS' RECORD:

"Please furnish me with information as to the sources of supply of the following goods: Needles, for hand and machine work; stamped buttons, silk, cut goods dry goods, lamp burners for petroleum light, rubber thread, medical remedies and instruments, cosmetics, for which there is great demand."

TEXTILES

[A complete record of new textile enter-rises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new milis or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS' RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

The Waverly Cotton Mill.

The Waverly Cotton Mill Co. of Laurinburg, N. C., will have its buildings ready for machinery by August 1, and expects to begin spinning by September 1. This company will operate 20,000 spindles, tc., on the production of hosiery yarns-16s to 30s. Its mill will be driven by electricity, the power being obtained from 550-horse-power boilers and cross-compound condensing engine. R. C. Bibberstein of Charlotte, N. C., is the company's engineer in charge. The organization of the Waverly Cotton Mill Co. and its plans for a mill were announced some months ago. J. P. McRae is president, and the enterprise is under the same managen as the Scotland Cotton Mills and the Dickson Cotton Mills of Laurinburg.

The Entwistle Manufacturing Co.

William Entwistle and Geo. P. Entwistle of Rockingham, N. C., will organize the Entwistle Manufacturing Co. to build a mill of 40,000 spindles and 1000 looms for manufacturing shirting, etc. They have not engaged the engineer in charge. and will probably capitalize the enterprise at \$1,000,000. The Messrs. Entwistle are officers of the Pee Dee Manufacturing Co. which operates 15,456 ring spindles, 704 parrow looms, etc. Wm. P. Entwistle has been elected president; W. B. Cole, vicepresident and general manager, and Geo. P. Entwistle, secretary-treasurer.

Will Use Electric Power.

The Dacotah Cotton Mills, the Nokomis Cotton Mills and the Wennonah Cotton Mills at Lexington, N. C., have decided to use electricity for power. C. A. Hunt, Jr., president of each company, has contracted with the Southern Power Co., main office Charlotte, N. C., for electricity from its transmission lines near Lexington, and will use about 2000 horse-power. He has awarded contracts for the electrical motors and other equipment. The three mills operate a total of 34,760 spindles and 1082 looms.

The Arcadia Mill.

The Arcadia (S. C.) Mills awarded ontract to J. F. Gallivan Building Co. of Greenville, S. C., for erection of addition, as reported last week. This addition will be of brick, 105x255 feet, and is to be equipped with 10,000 spindles and 250 looms. J. E. Sirrine of Greenville, S. C., is the engineer in charge, and all con-tracts have been awarded. The company now operates 10,000 spindles and 250 looms on sheeting production.

The Melville Mill.

The Melville Woolen Co., Fredericks-Lurg, Va., is progressing with the construction of its addition, reported in June. It is erecting a two-story 105x69-foot building at a cost of \$12,000, and has contracted for the additional machinery. The increased equipment will comprise 58 looms, 10 sets cards, etc., for manufacturing cassimeres, flannels and overcoatings

Will Knit Coats.

The Goodenow-Brookfield Knitting Co. has organized and installed electric-power

turing knit coats. J. Frank Goodenow is president-secretary-treasurer, while Arthur D. Brookfield is manager and Rudolph Mueller is superintendent. This ompany was mentioned recently as incorporating with a capital stock of \$10,-000. Its main offices are at 211 Westport avenue, Kansas City, Mo.

The Beaver Dam Mills.

The Beaver Dam Mills of Edgefield, S. C., will be incorporated to take over the Edgefield Manufacturing Co., whose property at Edgefield, S. C., was noted last week as purchased by Lewis W. Parker of Greenville, S. C. The new company will have a capital stock of \$200,000 and will double the mill's present capacity, increasing it from 5000 spindles and 328 looms to 10,000 spindles, etc. B. F. Zimmerman of Greenville is to be president and treasurer.

The Puritan Cordage Mills.

The Puritan Cordage Mills of Louisville, Ky., is now ready to deliver sash This company's organization and plant have been noted heretofore. Last month the Manufacturers' Record described the \$60,000 Puritan equipment, which includes 2000 spindles, rope machinery, electric motors, etc., for a daily output of 5000 pounds. Chas, T. Wolfe is the company's president.

A Bag Cloth Mill.

The American Bag Co. of Memphis, Tenn., will organize a company to build a mill for manufacturing bag cloth. It will probably capitalize at \$250,000.

Textile Notes.

W. B. Smith of Ruston, La., is reported as planning the organization of a company to build a cotton-batting mill, to cost \$50,-000, at Monroe, La.

The Jasper Miller Son's Company of Charlotte, N. C., has been incorporated with a capital stock of \$20,000 to manufacture cotton batting, by Jasper Miller and associates.

The Dudley Shoals Cotton Mill Co. of Granite Falls, S. C., has installed an auxiliary steam plant of 125 horse-power to furnish power when its hydro-electric plant is affected by low water.

W. J. Thackston, Lewis W Parker, E. A. Smyth and others of Greenville, S. C., have purchased the Reedy River Manufacturing Co. property near Greenville Their bid was \$149,400, and the plant includes 12,000 spindles, 371 looms, mill buildings, warehouses, etc.

Free Iron Ore at Birmingham.

[Birmingham Age-Herald.]

It is earnestly hoped that President Taft will not insist upon foreign coal and ore being admitted to the United States free of duty. He is said to be seeking to influence Congress in favor of placing raw material on the free list, but when the Birmingham district's side is presented to bim he will, it is believed, see the harmfulness of his policy and the reasonableness of the protest. Representative business men, fully realizing what a serious blow free coal and ore would be to capital invested in Alabama's mineral development, have telegraphed the President and in a few words have made it clear that free ore would not only jeopardize the millions of dollars already invested in this State, "but would prevent further investments now in sight.

The President enjoys the reputation of being a businesslike man as well as a just man, and it will be a surprise and a disappointment to the vast business interests of Alabama if he does not respond favorably to the petition of those who adequately equipment with machinery for manufac- represent the solid enterprise of this sec- of its members.

tion. President Taft is in a dilemma, to Le sure. He has in mind his campaign pledges to the effect that tariff revision would be downward, and Congress is about to put upon consumers a tariff worse than Dingley's. He is honest in his desire to give the masses relief. But fairness and justice to all sections would certainly deand, as the Baltimore MANUFACTURERS RECORD points out, that one section should not be sacrificed to enrich special interests in other sections.

Let ore and coal be kept off the free list and the Birmingham district will enter upon a new era of prosperity that will surpass all former records.

[Birmingham News.]

The proposition to put iron ore on the free list, which it is understood is being considered by President Taft among the things for which he will use his influence with Congress in the adoption of a new tariff law, has been met with a strong protest from the editor of the Baltimore MANUFACTURERS' RECORD in a telegram to the President urging that this action be not taken, and contending for an equal measure of protection to the industrial interests of the South as are given to those of other parts of the country.

A number of prominent business men of Birmingham, representing large financial and industrial interests in this district. have also sent a telegram to President Taft setting forth the extensive investments in ore and coal properties in Alabama and the mineral regions of the South that would be affected by the adoption of the proposed free ore and coal, and calling attention to the fact that such a proposition if adopted might jeopardize these interests and would prevent further investments no win sight.

A reasonable protection on ore in the South would be only fair and proper in consideration of the protective principle in force, and would be putting the South in a position to compete with other parts of the country in the industrial field. President Taft has shown a disposition to give the South fair treatment, and that is all it asks at the hands of the Federal Government. It requests only that it be shown such consideration in the matter of the public policy as is accorded to other districts of the country, and hence the stand the industrial interests of the South has taken in this matter.

Red Gum Veneer.

During 1908 there were cut in this coun try into veneer 382,542,000 feet board measure of logs, valued at \$7,891,000, as against 348,523,000 feet, valued at \$6,436,-000, in 1907, according to statistics just published by the Bureau of the Census in o-operation with the United States Forest Service. Red gum, as in the preceding year, ranked first among the woods used for vencer, 119,945 feet being consumed, with a valuation of \$1,272,096, forming a percentage of 31.4 of the total consumption. The demand for red gum was even greater than in 1907, when its percentage of the whole consumption was 29.5. Among other woods, with the exception of yellow pine, which shows an important increase, no great increase is noted.

Henry A. Alexander of the Atlanta, Ga., bar has compiled the Mechanics' and Materialmen's Lien Laws of the Southeastern States, with State and Federal decisions bearing upon them. The compilation covers Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Virginia.

The Board of Trade of Jacksonville, Fla., H. H. Richardson, secretary, has issued in convenient folder form a directory

Construction Department

TO OUR READERS!

In order to understand and follow up properly the Construction Departient items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS' RECORD seeks to verify every item reported in its Construc-tion Department by a full investigation and complete correspondence with everyone in terested. But it is often impossible to of this before the Item must be printed, or el-lose its value as news. In such cases the statements are always made as "rumored or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimina-tion, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

In correspondence relating to matters re ported in this paper, it will be of advantage to all concerned if it is stated that the in-formation was gained from the Manufac-TURERS' RECORD

ADDRESS FULLY

To insure prompt delivery of communications about items reported in these columns are name of one or more incorporators of a newly incorporated enterprise should be shown on the letter addressed to that town or to the town of the individual sought, as may be shown in the Item, as sometimes a communication merely addressed in the corporate or official name of a newly established porate or official name of a newly established company or enterprise cannot be delivered by the postmaster. This will help to insure prompt delivery of your communication, aithough it is inevitable that some failures on the part of the postal authorities to de-liver mail to new concerns will occur.

WRITE DIRECT

It is suggested to advertisers that in communicating with individuals and firms reported in these columns, a letter written specifically about the matter re-ported is likely to receive quicker and surer attention than a mere circular.

BRIDGES, CULVERTS, VIADUCTS

Barboursville, W. Va.—Cabell county award ed contract to Brackett Bridge Co., Cincinnati, Ohio, at \$12,395 to construct steel and Iron superstructure for bridge over Guyandotte River. (Recently mentioned.)

Columbus, Ga.-Bids will be opened August 20 for construction of bridge over Baker Creek, between Muscogee and Talbot coun-ties; E. J. Rankin and others, commissioners of Muscogee county, Columbus; A. Mizell and others, commissioners of Talbot county, Talbotton, Ga. (See "Machinery Wanted.")

Greenville, S. C.—Greenville and Pickens counties awarded contract to A. D. McClain, Spartanburg, S. C., to construct wooden bridge over Saluda River at \$3100. (Recently

Hagerstown, Md.-Washington county will construct reinforced concrete bridge over Beaver Creek; bids to be opened August 3; John E. Wagaman, clerk. (See "Machinery Wanted.")

Milton, Fla .- A. D. McClain, Spartanburg, C., has contract at \$5900 to construct steel bridge over Black River.

Kansas City, Mo.—Board of Public Works awarded contract to Midiand Bridge Co. of Kansas City at \$10,176 to construct concrete bridge over Brush Creek on Prospect avenue. (Recently mentioned.)

CANNING AND PACKING PLANTS

McDade, Texas.-N. K. Freeman will establish cannery recently reported; capacity, 12, 000 to 15,000 cans daily. (See "Machinery

Stowell, Texas.—Stowell Canning Co. incor-orated by R. M. White, E. A. Hughes, L. G. Stowell, Texas Ogden and others.

M. C. Wade, president, suite 315, State Na-tional Bank Bldg., contemplates establish-ment of fruit and vegetable cannery. (See "Machinery Wanted.")

Wynnewood, Okla. — Wynnewood Canning and Syrup Factory (T. A. Threlkeld), recently noted to establish cannery and syrup Co., recently reported incorporated with \$50,-

factory, has purchased machinery; will erect 48x80-foot wood building. (See "Miscellane-8x80-foot wood building. (See "Miscellane-ous Manufacturing Plants" and "Machinery

CLAYWORKING PLANTS

Frostburg, Md.—Bricks.—Mayer Bros. will establish plant for manufacturing building and paving brick; will erect two buildings.

Giddings, Texas-Pressed Brick.-Giddings Pressed Brick & Gin Co. incorporated with \$30,000 capital stock by J. G. Kapper, W. O. Bowers, Andreas Bittmer and others.

Lynchburg, Va. — Bricks.—Adams Bros. Payne Company will install additional ma-chinery, increasing capacity to 100,000 bricks daily.

lish brick plant recently reported; 20,000 daily capacity. (See "Machinery Wanted.")

Ragland, Ala. - Bricks. - Wilpicoba Clay Works will expend \$50,000 for improver

COAL MINES AND COKE OVENS

Abney, W. Va.-Winding Gulf Colliery Co Justus Collins, president, main offices 1503 Union Trust Bidg., Cincinnati, Ohio, recently noted to develop mines near Abney, has se-icted F. C. Greene, Republic Bidg., Cleveland, Ohio, to have charge of designing and construction of tipple and equipment, fan-house and equipment; Keller & Sibley, Charleston, W. Va., in charge of installation and construction of boller plant and elec-trical equipment, including 1200-horse-power loilers, probably 800-kilowatt generators, steam pipe line connections, etc.; full capacity of mines, 500,000 tons per annum; J. A. Renahan, vice-president; J. S. Berry, secretary-treasurer; A. M. Herndon, superintendent, Abney. (See "Machinery Wanted.")

Birmingham, Ala.—Southern Iron & Steel Co. has resumed operations at Altoona coal mines and Crudup iron mines.

Charleston, W. Va.-Consolidated West Vircharteston, w. va.—consolidated west virginia-Obio Coal Co. incorporated with \$300,000 capital stock by E. Dale Field and James Ii. Field, both of Uniontown, Pa., and Chas. E. Wilson, Dunbar, Pa.

Clarksburg, W. Va.—Redlick Run Coal & Coke Co., recently reported incorporated, will not operate at present; Isaac G. Roby, president ; E. D. Brown, se cretary-tre

Dallas, Texas,-Reid Coal & Mining Co. in corporated with \$100,000 capital stock by W. Reid, Royal A. Ferris, Nathan Adams and

Gordon, Texas.-W. W. Johnson, recently noted to develop coal mines, proposes to sink and timber two or more shafts to coal; also provide air shafts; contemplates providing water supply and platting town for use of ees, and leasing coal on royalty.

Little Rock, Ark.-Little Rock Packet Co considering construction of coal tipples at river and building of railroad from mine to distance 11/2 miles, for oal by barge.

Nemo, Ky.—Tennessee Timber, Coal & Iron Co., C. W. Whitcomb, general manager, 161 Devonshire St., Boston, Mass., is arranging or construction of short-line railway to its properties from Queen & Crescent Route of Southern Railway; will undertake certain development work by diamond drilling, etc., but will operate as holding company; owns 58,500 acres coal, iron and timber land in Cumberland and Morgan counties; now pre paring contracts for execution with compa iles which contemplate extensive coal mining and lumber manufacturing, erection of charcoal iron furnaces and foundries, etc. (Incorporation of company and plans previously reported.)

Nortonville, Ky.-Hopkins County Coal Co vill be organized with \$250,000 capital stock to take over and operate properties recently noted (under Madisonville, Ky.) purchased by local and Eastern capitalists, represented by Sam T. Castleman and Geo. C. Sandifer by Sam T. Castleman and Gev. C. Sandallof Madisonville; property includes Oak Hill mines near Nortonville and about 3000 acres ther coal lands; company reported to build one mile switch from mine to railroad; purhase price \$250,000.

Welch, W. Va.-Browns Creek Land & Coal Co. incorporated with \$100,000 capital stock by John H. Holt, Huntington, W. Va.; Howard H. Snyder, Media, Pa.; Herman Wendell, Wayne, Pa.; Morris Williams, Philadelphia,

000 capital stock, elected W. E. Deegans, Glen Jean, W. Va., president; P. E. Gallagher, St. Albans, W. Va., vice-president, and O. C. Huffman of Welch, secretary-treasurer; organized to absorb Tug River Colliery Co. of Welch, now operated by Gallagher & Huff-man under sublease from Slick Rock Coal and to purchase leasehold and equipment

COTTON COMPRESSES AND GINS

Bay Minette, Ala.-T. A. Huggins will es-

Bule, N. C.—Raft Swamp Co-operative Milling & Ginning Co. incorporated with \$5000 capital stock by H. L. Baxey, H. F. Townsend and others.

Clover, S. C.-W. B. Stroup and associates awarded contract to W. I. Brison, Clover, for erection of 20-ton cottonseed-oil mill and gin. (Previously noted.)

Giddings, Texas.—Giddings Pressed Brick & Gin Co, incorporated with \$30,000 capital stock my J. G. Kapper, W. O. Bowers, Andreas Bittmer and others.

Lagrange, Texas.—Lagrange Gin & Milling Co. incorporated with \$15,000 capital stock John Belzer, Carl Wlemken and H. G.

Lancaster, Texas.—Lancaster Cotton Oil Co. will install 70-saw ginning outfit, doubling capacity of plant.

Maxton, N. C.-Planters' Gin Co. incorporated with \$1500 capital stock by W. S. Mc-Nair, J. S. McRae and others.

Milledgeville, Ga.-Milledgeville Cotton Co. warded contract to Webb Press Co., Minden, La., for cotton compress with capacity of one bale a minute.

Mincola, Texas.—Citizens' Compress Co. in-corporated with \$16,000 capital stock by J. S. Reese, R. J. Gaston, A. Paten and others.

Monticello, Miss.-Monticello Compress & Monticello, Miss.—Monticello Compress & Warehouse Co., recently reported incorporated with \$25,000 capital stock, will operate plant with capacity of 800 bales cotton daily; will erect fireproof 200x300-foot structure; has purchased machinery; John H. Arrington, president; E. S. Fairman, secretary-treasurer; M. T. Murphree, promoter, in charge of construction. (See "Machinery Wanted.")

Ovett, Miss.—Ovett Gln Co. incorporated with \$3000 capital stock by K. C. Hall and others.

Palmer, Texas.—Farmers' Gin Co. organ-ized with \$15,000 capital stock; will establish brick cotton gin.

Rosenberg, Texas.-Rosenberg Gin Co. in orporated with \$3000 capital stock by J. A. Robertson, S. J. Winston, Clem Bassett and Robertson, S. August Myers.

Sagerton, Texas.—Sagerton Compress Co Incorporated with \$30,000 capital stock by Baker Hoskins, C. W. Hoskins and F. M.

San Marcos, Texas.-San Marcos Utilities Co. Incorporated with \$200,000 capital stock by V. L. Brooks and others. (See "Miscel-laneous Manufacturing Plants.")

Okla. - Farmers' Indepe Cotton Gin Co. incorporated with \$8000 capital stock by J. R. Landsdown, C. E. Hook, J. G. Hankey and others.

COTTONSEED-OIL MILLS

Anderson, 8. C.—Anderson Phosphate & Oil Co. will overhaul machinery and make other improvements. (See "Miscellaneous Manufacturing Plants.")

Bruceville, Texas.—Bruceville Cotton Co, incorporated with \$40,000 capital stock by Edgar Mixson, E. T. Bruce and W. L. Gres

Clover, S. C .- W. B. Stroup and associates awarded contract to W. I. Brison, Clover, for erection of 20-ton cottonseed-oil mill and cotton gin, to cost \$5000. (Previously noted.)

Mt. Olive, N. C.—Southern States Cotton Oil Refining Co., Wilmington, N. C., recently noted to establish oil mills and refineries at Wilmington and other cities, awarded cotract to D. J. Rose & Co., Rocky Mount, ., for erection of proposed oh mill at Mt. Olive.

New Orleans, La.-Gulf & Valley Cotto Co. incorporated with \$25,000 capital by Adolph and John Aspergren and A. Oil Co.

Texarkana, Texas.—Farmers' Oll & Ferti-lizer Co. Incorporated with \$160,000 capital stock; R. J. O'Dwyer, president; W. T. Mur-phy, vice-president; J. O. Battle, secretary; D. C. Harrington, treasurer; will establish cottonseed-oil mill and fertilizer factory.

ELECTRIC-LIGHT AND POWER PLANTS

Alvord, Texas.-E. E. Gose, Decatur, Texas, considering construction of electric-light plant at Alvord.

Binghamton, Tenn. — Binghamton Light & Power Co., W. M. Tucker, manager, recently noted to double boiler and generator capacity of plant, contemplates installing 150 or 200-kilowatt generator, with boiler and en-gine, about September 1. (See "Machinery Wanted.")

Bremen, Ga.-City has engaged W. J. Rad. cliffe, Tallapoosa, Ga., to superintend con-struction of electric-light plant; (\$9000 bond issue recently mentioned.)

Citronelle, Ala.-E. E. Nichols and associates will organize company to establish elec-tric-light plant; reported to install equip-ment within 60 to 90 days.

Clarksville, Mo.—Company will be orgalized to construct electric-light plant. E. Moody is secretary committee in charge.

Clifton, Texas.—Clifton Electric Light & Power Co., recently reported incorporated with \$25,000 capital stock, has purchased electric-light plant, including building, water-power, etc.; is installing duplicate plant oper-ated by steam; J. P. Chambers, president; A. A. Slaughter, vice-president; W. G. Scarff, ecretary-treasurer.

Elberton, Ga.-Park A. Dallis, engineer Atlanta, Ga., submitted report, which City Council has adopted, for furnishing increased electric power; will install 300-horse-power generator at electric-light plant, increase water-power by lowering talirace, remove and install present generator at pumping station, where it will be connected with engines used for pumping water, and construct practically new line from electric plant to ity; \$5000 bond issue voted. (Recently m

Eldorado Springs, Mo.—B. F. Proctor will, t is reported, install engine and electric generator.

Highland Park, P. O. Richmond, Va.—Bids are invited until July 31 for preparing plans and specifications for electric-light and water-works systems; W. T. Quarles, chair-man Committee on Light and Water, 514 Fifth Ave. (Recently mentioned. See "Machinery Wanted.")

Jacksonville, Fla.-Jacksonville Electric Co. will meet August 16 to consider increasing capital stock by \$400,000; Clement R. Ford, ecretary.

Leesburg, Fla.-J. Y. Clark, manager Lee burg Ice Co., recently noted to have received franchise for construction of electric-light system and for water-works, placed contract with Chicago Bridge and Iron Works, Chi-cago, for 80,000-gallon tank and ordered generator and engine from Skinner Engine Co., Erie, Pa.

Lexington, Tenn.—City is considering construction of electric-light plant and waterworks; wants to correspond with consulting engineer; cost not over \$15,000. Address H. engineer; cost not over \$15,000. Address H. E. Graper. (Previously mentioned. See "Machinery Wanted.")

Lubbock, Texas.-Lubbock Ice & Light Co., W. D. Benson, president, recently reported incorporated with \$25,000 capital stock, will erect \$2000 brick 50x150-foot building; will in-stall 75-kilowatt alternating-current 1100-volt single-phase electric plant; will open ma-chinery proposals about August 1; R. B. Ellis, general manager. (See "Machinery Wanted.")

Memphis, Tenn.—Ford, Bacon & Davis, con-tracting engineers, 24 Broad St., New York, have submitted plans to contractors and will soon award contract for proposed \$100,000 addition to power plant of Memphis Street Railway Co.

Monett, Mo.—City will make additions to electric-light plant and building; L. G. Knapp & Co., Kansas City, Mo., engineers in charge; Perry Short, Monett, may be addressed. (See "Machinery Wanted.")

Ckemah, Okla. - M. A. Earl, Muskog Okla., is preparing plans, it is reported, for electric-light plant and water-works; estimated cost, \$50,000.

San Marcos, Texas,-San Marcos Utilities

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Company incorporated with \$200,000 capital stock by V. L. Brooks and others, includes in charter privileges establishment of electric-lighting plant. (
Manufacturing Plants.") (See "Miscellaneous

Suffolk Va -Suffolk Gas & Electric Co. corporated with \$15,000 capital stock; W. H Venable, president; W. W. Starke, vice-presi dent. and M. G. Mulvey, secretary-treasurer, all of Norfolk, Va.

Vicksburg, Miss.—Mississippi Electric Co. neorporated with \$10,000 capital stock by ... A. Woods, A. M. Paxton and others.

Wagoner, Okia.—City will vote in August n issuance of \$200,000 bonds for electric-light, cater-works and city hall. Address The

FLOUR, FEED AND MEAL MILLS

Baton Rouge, La.-Capital City Oil Mill, J. C. Hamilton, manager, will establish feed-products mill; capacity, three carloads daily; will erect building.

Bethpage, Tenn.—Ed. S. Payne, James Chenault and D. H. Chenault have purchased flouring mill and 60,000-bushel grain elevator t Rogana; will install new equipment; outto be 40 barrels flour daily.

Lexington, Va.—Moses Bros. will make im-provements to plant, including widening of mill race six feet for entire course, making forebay 20 feet clear, cemented on both sides nd bottom, installation of new water-wheel orn-mill machinery, increasing capacity 0 bushels of corn daily and construct ing bridge larger than and to replace present

Mores, La.-White Swan Mill will make improvements to plant, including replacing wooden pillars with brick ones at warehouse and installation of new machinery.

FOUNDRY AND MACHINE PLANTS

Baltimore, Md.—Stoves and Ironware.—A. Weiskettel & Son, 2000 Aliceanna St., will erect two additional buildings at Bayview Junction; 75x100 feet and 100x150 feet; brick;

Charlotte, N. C.—Foundry.—Cole Manufac-turing Co. will erect six buildings, including foundry; manufactures harvester and farm-ing machinery. (See "Miscellaneous Manufacturing Plants.")

Davidson, N. C .- Machine Shop .- Messrs Bratton will establish machine shop and odworking plant.

Hattlesburg, Miss.—Blow Pipe and Sheet Metal.—Hattlesburg Blow Pipe and Sheet Metal Works incorporated with \$10,000 capital stock by F. H. Campbell, C. C. Eure and

Sikeston, Mo.-Stoves.-Pinnell Stove Co. incorporated with \$10,000 capital stock by N. G. Holley, C. C. Pinnell, David Dickworth and others.

Spartanburg, S. C.—Doffing Machines.— Russell-Compton Machine Co. will equipplant especially for manufacturing Hill-Boozer doffing machines.

St. Louis, Mo .- Pumps .- Lowe-Stephen Pump Co. incorporated with \$10,000 capita stock by Albert H. Lowe, Charles H. Ste phenson, Guy Stephenson and others.

GAS AND OIL DEVELOPMENTS

Apison, Tenn.—W. L. Taylor, R. F. D. No. 1, Box 63, contemplates development of leased oil and gas lands.

Elkins, W. Va.—West Virginia Central Gas Co. will expend \$25,000 for extending pipe line from Beverly to Huttonsville, W. Va.

Gulfport, Miss .- Southern Investment Co organized with \$30,000 capital stock by P. H. N. Tippin, J. B. Howie, Geo. M. Foote and others; purchased and will develop 80 acres of land at Bayou Bernard.

Gulfport, Miss.—Bankers & Merchants' Oil & Gas Co. organized with \$50,000 capital stock by Geo. M. Foote, P. H. N. Tippin, J. W. Howie and others.

Hubbard, Texas.-Hubbard Oil Co. incorpe rated with \$80,000 capital stock by G. L. White, Ed. Woodall and R. L. White,

Muskogee, Okla.-Ruffen Oll & Gas Co. in orporated with \$10,000 capital stock by K. S. Weeks, John L. Weisner, J. Scott and others.

Oklahoma.—Quintuple Oil Co. of Pittsburg incorporated with \$100,000 capital stock by John Eaton, Louis Sands, Louis Brown and others, all of Pittsburg, Pa.

Parkersburg, W. Va.—Ridge Oil & Gas Co. Incorporated with \$6400 capital stock by Loyal Gilbert, C. H. Steinbeck, H. G. Butcher

and others Roane County, W. Va.-Ohio Fuel Oil Co. Frank I. Falk, F. S. Henderson, Wm. Hunter, Jr., and others, all of Pittsburg, Pa.

Sapulpa, Okla.—Tuma Creek Oil Co. orated with \$10,000 capital stock by Boyaird, A. R. Davis, W. Boyaird and others.

Sapulpa, Okla.-Western Oil Station Co. incorporated with \$5000 capital stock by W. R. Douglas, J. Harvey Smith, both of Sapulpa, and W. J. Collier, Tulsa, Okla.

Texarkana, Texas.-Texarkana Gas & Oil Co. incorporated with \$100,000 capital stock by J. E. Morris, M. D. Tilson and J. E. Blackburn.

Tulsa, Okla.-Worth Oil Co. incorporated with \$100,000 capital stock by Harry Heasley, Pittsburg, Pa.; Randolph Shirk and A. W. Leonard, both of Tulsa.

ICE AND COLD-STORAGE PLANTS

Chillicothe, Mo.—Chillicothe Ice & Fuel Co. ncorporated with \$35,000 capital stock by C. H. Hackney, William Turner, W. J. Wiley and others

Dallas, Texas.-Thos. Field, 255 Main St. ontemplates installation of 10 to 15-ton ice achine. (See "Machinery Wanted.")

Daphne, Ala.-A. E. Strong and W. G. Brandenberg will establish ice plant and reamery. Dillon, S. C .-- Dillon Manufacturing Co. in

corporated with \$10,000 capital stock to man-ufacture ice, etc., by T. A. Dillon and C. F. O'Ferrall.

Lindsay, Okla.—Lindsay Ice Co. incorporated with \$15,000 capital gtock by O. I es, P. G. Spaulding, J. D. Wilson and others.

New Orleans, La.—Merchants' Ice Co. corporated with \$60,000 capital stock; N. Wilburn, president; Maury Wilburn, v resident; Walter A. Taylor, secretary-treas-

San Marcos, Texas.-San Marcos Utilities Co. incorporated with \$200,000 capital by V. L. Brooks and others. (See "? laneous Manufacturing Plants.")

IRON AND STEEL PLANTS

Birmingham, Aa.-Iron Furnace.-Williamon Furnace Co. will blow in its Williamson furnace on August 1; furnace has been re-lined and repaired at cost of \$10,000, and will have daily capacity of 125 tons pig-iron; B. P. Wilson, Jr., 623-26 First National Bank Bidg., manager and engineer in charge. (Recently mentioned.)

Birmingham, Ala.—Iron Furnace.—Tennes-see Coal, Iron & Raliroad Co. will remove chills from casthouse at Alice Furnace and put furnace in blast on foundry iron as soon as casthouse is prepared, which will probably be about August 1.

Birmingham, Ala.—Iron Furnace.—South-ern Iron & Steel Co. has begun cleaning Trussville furnace for relining, preparatory to blowing in; contemplates daily output of 175 to 200 tons of iron.

Chattanooga, Tenn.—Iron Furnace.—Citico Furnace Co. is relining furnace and will be ready for operation about August 1.

Gadsden, Ala.-Steel Rod and Wire Mills etc.—Southern Iron & Steel Co., Birming-ham, Ala., telegraphs the Manufacturers' Record it will rebuild Gadsden rod and wire mills; will double capacity, increasing to 350 tons wire nails and fencing; has awarded contracts for machinery; will begin construction at once; brick and steel buildings; approximate cost, \$1,000,000.

Holt, Ala.-Iron Furnace.-Central Iron & Coal Co. has relined from furnace and will resume operation by August 1; New York office at 37 Wall street.

St. Louis, Mo.-Iron Furnace.-Ruby Moun tain Iron & Furnace Co., 209 North 11th St., recently reported incorporated with \$100,000 capital stock, plans to build blast furnace in connection with development or iron-ore properties. William H. Baumann is presi-dent. (See "Mining.")

LUMBER-MANUFACTURING PLANTS

Bluefield, W. Va.—Hardwood Lumber & Mining Co., B. H. Angell, president, Roanoke, Va., is negotiating sale of its 6000-acre tract timber on Laurel Creek. If sale is not completed, will build two mills, each with daily capacity of 25,000 feet lumber.

Boston, Ga.-W. A. Parker and others have organized company to establish plant to man-nfacture lumber, laths and shingles. (See 'Machinery Wanted.")

Bradford County, Fla.—Sax Lumber Co., New York, has purchased about 10,000 acres of timber land in Bradford and Clay counincorporated with \$500,000 capital stock by ties, and has sold timber on tract to Starke

Lumber Co., Starke, Fla., who will build tramroad and establish mill.

Browndel, Texas.-Kirby Lumber Co. rebuild circular and band mill, dryklins, etc., recently reported burned: loss was \$300,000; B. F. Bonner, general manager, I Texas. (See "Machinery Wanted.")

Cass, W. Va.-Deer Creek Lumber Co., re cently reported incorporated with \$75,000 cap ital stock, will erect mill-construction build-ings costing \$15,000 and equip with sawmill machinery for plant of 50,000 feet daily ca-pacity; J. F. Torbert, president; L. T. Bran-don, secretary; C. S. Harter, treasurer and

Charleston S. C -Standard Rallroad Cro tie Co. incorporated with \$4000 capital stock by Henry A. M. Smith and W. B. Chisolm.

Charleston, S. C.—Southern Mahogany Co. Incorporated with \$200,000 capital stock by D. L. Dwight and W. L. Harris.

Clarksdale, Miss.—Chilhowie Lumber Co. acorporated with \$10,000 capital stock by M. S. Williams, R. H. Wildberger, A. N. Beatle

Clayton County, Ga.—Ransom-Lomax Lumber Co. organized with \$50,000 capital stock by Sam A. Ransom, A. B. Ransom, W. J. Cude and others, all of Nashville, Tenn.; our county and will establish two sawmili

Dothan, W. Va .- P. M. Snyder, Mt. Hope, W. Va., has purchased timber on holdings of Loup Creek Colliery Co.'s holdings in Fay-ette county, estimated to cut 7,000,000 feet; will establish band mill with capacity of 25, 000 feet daily.

Dubach, La.-Dubach Lumber Co. Incor rated with \$150,000 capital stock; George W.
James, president; M. L. Fleishel, vice-president; A. H. Wacker, secretary; T. L. James, treasurer; will establish sawmill and planer.

Fivay, Fla.-Aripeka Sawmills, T. H. Mar Fivay, Fla.—Arlpeka Sawmills, T. H. Martin, manager, will build two additional milis at cost of \$250,000 each; and operates two double band mills with daily capacity of 150,000 feet timber; planing mill with daily capacity of 75,000 feet, etc.; steam-power plant; electric lighting, etc.

Foss. Ark.-Tannehill & Haines will build sawmill with dally capacity of 25,000 feet lumber; have equipment; cost of plant, \$25,000.

corporated with \$150,000 capital stock by John McMurry, Thomas C. Spencer and C. B.

Houston, Texas.-Thompson Bros. Lumber Co. has increased capital stock from \$600,000 to \$2,100,000; will purchase 500,000,000 feet of timber in Trinity county and erect mill to cost \$300,000 with capacity of 100,000 feet daily; also plans to build town and erect 250 dwellings.

Lafayette, La.—Red Cypress Shingle Co. organized with M. D. Dalferes, Lafayette, president; J. W. Crouse, Lafourche, La., vice-president; B. A. Mercenen, New Iberia, La., secretary-treasurer; will establish plant with capacity of 100,000 shingles daily.

Lake Charles, La.—Texas Creosoting Co. Texarkana, Texas, is negotiating for 15,000,000 feet of standing timber on Beckworth Creek. and proposes establishment of mill with ca pacity of 25,000 to 50,000 feet daily.

Lawton, Okla.—Hollem-Truitt Lumber Co. incorporated with \$20,000 capital stock by C. L. Hollem, J. R. Truitt and Lulu Truitt.

Luray, Va.—Heiston-Miller Company In-corporated with \$25,000 capital stock; V. H. Ford, president; F. W. Grove, secretary-

Midlothian, Md.-McNitt-Huyett Lun Co., Nittany, Pa., has purchased timber tract and will establish mill.

Mobile, Ala,-Mobile Timber Co. Incorpo rated with \$125,000 capital stock by R. (Haysen, M. C. Moore and Victor L. Brown.

Norfolk, Va.-C. R. Johnson Lumber Co. in orporated with \$300,000 capital stock; C. R. Johnson, president; A. B. Johnson, secretary.

Pyriton, Ala.—Shin Bone Valley Iron & 'imber Co. will arrange for development of 25,000 acres timber land, mostly long-leaf yellow pine. (See "Mining.") Roanoke, Va.-Leonard Bros. will repair

wmill reported burned Rochelle, La.-Bradford-Hoskins Lumber

will establish mill.

San Antonio, Texas.—Albert Rine Lumber Co. incorporated with \$25,000 capital stock by Albert Rine, Gus Zalmazig and George B. Taliaferro.

Sewell, W. Va.-Sewell Lumber Co. is ar ranging to begin operations of 60,000 feet capacity mill, to develop tract estimated to cut 60,000,000 feet of timber.

Springfield, La.-G. H. A. Thomas Com-

pany will rebuild sawmill reported burned;

Tampa, Fia.—American Mahogany Co., Chicago, Ill., is understood to be completing arrangements for construction of extensive saw and veneer mills for handling cedar and mahogany lumber; latter to be shipped from Honduras, where company controls extensive tracts; mill buildings of concrete and steel; entire plant to cost \$250,000.

Vanndale, Ark.—York Lumber Co. incorporated with \$25,000 capital stock by James N. Hall, William Taylor and John Winsor.

Waco, Texas,-Citizens' Lumber Co increased capital stock from \$28,000 to \$53,000,

Washington, N. C.-Washington Lumber D. Incorporated with \$6000 capital stock by R. Kessinger, W. F. Harrell and Larry I.

Winchester, Ky.-H. G. Garrett, Winchester, and John H. Hardwick, Staunton, Va. have organized company with \$100,000 capi-

Winnfield, La.-Little Pine Lumber Co., J. E. Drewett, president, recently reported in-corporated, operates mill near Winnfield with 30,000 feet daily capacity; no further quinment needed.

Birmingham, Ala.—Iron.—South Highlands ron Co. incorporated with \$3390 capital stock y Hinton E. Carr, O. L. Stephenson, Joseph L. Hall and Byron H. Kelley,

Carthage, Mo.—Lead and Zinc.—Texahoma Mining Co. incorporated with \$36,000 capital stock by E. E. Gordon, R. A. Mooneyhan, Ed Hiatt and others

Carthage, Mo .- Lead and Zinc .- Big Slor Mining & Development Co. Incorporated with \$100,000 capital stock by John H. Magee, Flora V. Magee, J. L. Moore and others,

Fayetteville, W. Va. — Simms & Cassidy have purchased John Kincald property and will develop for mineral deposits.

Jonlin, Mo,-Lead and Zinc,-Independent Lead & Zinc Co., Box 350, recently reported incorporated with \$50,000 capital stock, has property about nine acres in extent; plant equipped; capacity of mill, 100 tons per 10 hours; Roy Osborne, Montgomery county, president; Grant Alexander, same address, vice-president; W. E. Wellep, secretarytreasurer and present manager.

Macon, Mo,-Lead and Zinc,-Wardmare Mineral Co. incorporated with \$48,000 capital stock by Harry M. Rubey, Thomas F. Wardall, William Rea and others.

Mangum, Okla.-Salt.-Reported that stock ny will be organized by T. H. Gilliland and others to develop salt springs near Mar

Pyriton, Ala.—Iron, Manganese, Graphite, etc.—Shin Bone Valley Iron & Timber Co. will be organized with capital stock of \$600. 900 by R. F. Kolb and O. M. Alexander of Anniston, Ala.; W. B. Davidson of Mont-gomery, Ala.; P. M. Clark and C. W. Huff-man of Lebanon, Tenn., and others of Boston : acquired brown ore manganese, graphite, mica and kaolin properties in Shin Bon Valley and 25,000 acres timber land, mostly ong-leaf yellow pine; will construct railway 16 miles long from Abel to Pyriton, on At lanta, Birmingham & Atlantic Raliroad, and later may extend from Abel to Deormond-ville, on Southern Raliway; will soon begin mining and arrange for timber developmining and arrange for timber develop-ments; J. D. Hunter, Anniston, Ala., com-pany's engineer in charge.

Rush, Ark. - Zinc. - Red Cloud Zinc Co. Isaac Reese, president, recently reported in-corporated with \$50,000 capital stock, con-tinues operation of mines on Buffalo River; present capacity 400 tons per 24 hours; lates erection of additional mills : Chas Vasseur, mining engineer and tendent.

St. Louis, Mo.-Iron.-Ruby Mountain Iron & Furnace Co., 209 North 11th St., William H Baumann, president, will develop iron proper-ties; will install ore washers and considerable mining equipment. (See" Iron and Steel Plants.")

MISCELLANEOUS CONSTRUCTION WORK

Augusta, Ga.-Canal.-Bids will be opened August 17 for exervating drainage canal about three and one half miles long 30 feet wide and 6 feet deep; F. B. Pope, caairman Canal and River Commission; Nisbet Wing-field, chief engineer. (See "Machinery chief engineer. Wanted.")

Chicot County, Ark.—Levee.—Bond Com-missioners, Tensas Basin Levee District, Rayville, La., awarded contract to Lacey Bros., Arkansas City, Ark., at 16.45 cents

per cubic yard, to construct Gaines Landing Levee, in Chicot county: 210,000 cubic yards Levee, in Chicot count (Recently mentioned.)

Dardanelle, Ark.—Levee.—City will con-struct 35,000 cubic yards levee embankment, reinforced concrete lock and dam and 10 reinforced culverts, varying in length from 56 to 100 feet; bids to be opened August 16; J 100 feet; blds to be opened August 16; J. Croom, president Levee District No. 1 of Yell county; Thomas Boles, chief engineer, Fort Smith, Ark. (See "Machinery Wanted")

Galveston, Texas-Pier.-Galveston Fishing Amusement Co., J. C. Gonzales, manager will rebuild fishing and amusement pier de stroyed by recent storm at loss of \$16,500.

Glen Jean, W. Va.-Tunnel.-McKell Coal & ke Co. will construct tunnel 1000 feet le connection with building three miles railroad, contract for which has been award ed W. O. Lipscomb, Roanoke, Va

Jacksonville, Fla.-Docks.-W. M. Masforwarding Co. Invites bids on construction of lumber docks on property leased in front of warehouse No. 1 of Merchants & Miners' Transportation Co. Specifications can be obtained from W. M. Mason, Jr., of Mason

Memphis, Tenn.-Levee.-Charles W. Little Memphis, Tenn.—Levee.—Charles W. Little, Caruthersville, Mo., has contract at 16.24 cents per cubic yard for 90,000 cubic yards levee enlargement in upper St. Francis levee district; M. L. Walker, Major, Engineers, U. S. Engineer Office, Custom-house, Memphis. (Recently mentioned.)

New Orleans, La.—Levee.—Orleans Levee doard awarded contract to Hercules Co. Ad., for construction of Carrollton Levee and revetment: levee will have base of 23 feet, 17 feet high, with slope of 10 to 1 on river side and 3 to 1 on city side; length 10,382 feet, and will contain 400,000 cubic yards of earth and 265,000 feet, board meas oted cypress lumber for revetment \$150,000, Arsene Pe consulting engineer. company's mentioned.)

Drainage District has been organized, with G. P. Blair, representative of Caldwell & Smith, Memphis, Tenn., as president, and J. N. Harvey, secretary; district comprises about 30,000 acres; will vote September 14 on levying of tax and issuance of bonds to nt of \$40,000 (Recently mentio

MISCELLANEOUS ENTERPRISES

Alexandria, La.—Grain Elevator, etc.— Alexander Mill & Elevator Co., A. V. Nellson president, has purchased machinery for elevator and mill recently described.

Asheville, N. C. - Land Improvement. --Chestnut Ridge Park Co. incorporated with \$15,000 capital stock by George S. Powell, J. E. Ray and others.

Atlanta, Ga.-Land Development.-W. Davis will develop 10¼ acres of land; will grade, make other improvements and erect number of dwellings.

Baltimore, Md.—White Automobile Co. organized with H. M. Rowe, 21 West Fayette St., president; J. S. Detrick, 508 East Preston St., vice-president; L. T. Appoid of Colonial Trust Co., Saratoga and Charles nial Trust Co., Saratoga and Charles secretary-treasurer; Frank W. Darling, Franklin Bldg., general manager: taken over White Garage Co.; will continue to use garage at Biddle street and Park ave-nue, and will erect \$35,000 garage and salesroom on Mt. Royal avenue

Baltimore, Md,-Land Improvements.-Th Essex Company has begun development 1500 acres of land recently purchased; initial development comprises 100 acres divided into more than 400 building sites; will provide es, sidewalks, alleys, etc. : will arrange for lighting facilities, water supply, sewerage disposal, etc., and may install local water-works; land located in Baltimore county east of city on new State highway: Redin & Howard, 11 East Lexington St., Baltimore, and Cleveland, Ohio, landscape engineers in charge; R. B. Pue, Central Savings Bank Bldg., Charles and Lexington Sts., Baltimore eloping property for company and can is dev

Baltimore, Md. - Electrical Contracto Brase Electric Co. incorporated by John Payton, 1620 West Fayette St.; John Kra-shaar and R. Contee Rose, 202 North Cal-

Baltimore, Md. - Contracting. - Maryland Building & Contracting Co. incorporated by David E. Potter, 711 First Ave. N.; Joseph H. King, 212 North Paca St., and Arthur M. Easter, 22 East Lexington St.

Bruceton Mills, W. Va.-Land Develop-tent.-Mountain Park Land Co. incorporated with \$100,000 capital stock by Frank E. Car ver, Brandenville, W. Va.; Frederick W. Schneidenheim, Connellsville, Pa.; Wm. S.

Downs, Kingswood, W. Va., and Ross M. Reigel, Harrisburg, Pa.

Center. Texas - Hardware, etc. Hardware-Furniture Co. incorporated with \$15,000 capital stock by W. D. Morgan, W. J. Norris and N. B. Atkins.

Coldwater, Miss.—Plows.—A. G. Perry Plow Co. incorporated with \$50,000 capital stock by A. G. Perry, J. D. Turley and

Corsicana, Texas-Export.-Navarro County Export Co. incorporated with \$50,000 capital stock by D. Heidenheimer, A. F. Wood and A. Levy.

Dallas, Texas - Dairy. - Thos. Field, 255 Main St., contemplates establishment of dairy on trolley line between Dallas and Fort Worth; may also install 10 to 15-ton achine

De Leon, Texas-Printing Plant.-De Leon will erect printing plant;

Denison, Texas—Land Improvement and Live-stock.—Nueces Land & Live-stock Co. Incorporated with \$100,000 capital stock by J. T. Munson, L. B. Moore, M. T. Mathes and

Dinsmore Fla. - Land Development. Samuel B. Hubbard, Frank S. Gray, Joseph R. Dunn, all of Jacksonville, Fla., and Wil llam Macklin, Dinsmore, have purchased and will develop several thousand acres of land. and otherwise develop property; Mr. Dunn, secretary and manager of company.

Gloster, Miss -Pleasure Resort, etc.-W. O. W. Health and Pleasure Resort and Sanitarium will be established by O. P. McPherson, president, and others; company propo to erect structures ranging from \$150 to erect structures ranging from \$150 cot-tages to \$5000 dwellings, erect hotels and conduct annual "Chautauqua," etc.; plans for buildings by S. D. Wilkinson, Gloster, Miss.; N. B. McLean and D. N. Lawrence

Greenwood. Miss.-Cotton.-Luckett-Sabin Cotton Co. incorporated with \$10,000 capital stock by W. R. Luckett, W. C. Waggener, Jr., both of Vicksburg, Miss., and R. F. Sabin, Greenwood.

Harrisonburg, Va.-Electrical Assembling and Supplies.—New England Electrical Co., H. W. Lawrence, president, Denver, Col., contemplates establishment of plant for as mbling electrical devices, etc., and to deal in electrical supplies.

Hot Springs, Va.-Automobiles and Livery Hot Springs Automobile & Livery Co. incorporated with \$10,000 capital stock; E. E. Warren, president; T. W. Jordan, vice-president; J. W. Harper, secretary-treasurer.

Houston, Texas-Orchard,-Algoa Orchard incorporated with \$10,000 capital stock Frank Putnam, R. J. McHugh and A. S Caldwell.

Miss.-Contracting.-River, & Harbor Construction Co. organized with \$500,000 capital stock by R. V. Powers, Julius W. A. Montgomery and others use of Kerr gabion process for struction, restoration, repair and reclamation of embankments of waterways, harbors, riv ers, etc., invented and patented by Charles

Jacksonville, Fla.-Naval Stores.-Mattox McMillan Company incorporated with \$100, 000 capital stock; R. W. Mattox, West Tocol Fla. president : D. H. McMillan, vice-president; P. L. Sutherland, secretary and treas urer, both of Jacksonville.

Jonesboro, Tenn.—Land Improvement.—Erwin Land Co. incorporated with \$20,000 capital stock by Thad A. Cox, George C. Sells, E. J. Vaught and others.

Jonlin Mo - Construction - Nolan-Dram Construction Co. incorporated with \$15,000 capital stock by Gilbert Barbe, Thos. C. Noan and George E. Draper.

Kansas City, Mo.-Asphalt Paving Repair Plant.—City awarded contract at \$29,395 Warren Asphalt Co., Boston, Mass., a asphalt paving repair plant recently me Mass., 10.

Mo.-Heating.-Watern Waterbury Heating Co. incorporated with \$50,000 capital stock by J. L. Waterbury, H. W. Gills and D. C. Simrall.

Knoxville, Tenn.-Transfer and Storage Edelen Transfer & Storage Co. incorporated with \$10,000 capital stock by J. W. Edelen. J. L. Doven, R. J. Stephenson and others.

Little Rock, Ark.-Land Improvement. Gloria Wells Land Co. incorporated with \$25,000 capital stock by C. C. Warren, John B. Goodrich, G. H. Clarke and others

Louisville, Ky.—Coal.—Frank G. Jones & Co. incorporated with \$25,000 capital stock

by Frank G. Jones, Alfred Adler, A. W. Jones and C. L. Starr.

Louisville, Ky. - Land Improvement.-Arcade Realty Co. Incorporated with \$100,000 capital stock; M. W. Burd, secretary. (See "Miscellaneous Structures.")

Louisville, Ky.—Construction.—Falls City 'onstruction Co. incorporated with \$50,000 Construction Co. incorporated with \$50,000 capital stock by W. N. Cox, H. P. Lewman and M. P. Micol.

Lynchburg, Va.-Fruit Cultivation. rose Fruit Co. incorporated with \$100,000 capital stock; W. G. Stevens, president, general manager and treasurer; William Beasley, secretary.

Magnolia, Ark.-Land Improven Springs Co., D. E. Smith, president ly reported incorporated with \$25,000 recently capital stock, will develop 120 acres for ealth and and pleasure resort; work, grading, buildi concrete yet employed; address for six months, Magnolia; later address, Magnesia

Tenn.-Contracting, Paving. Memphis, Koehler Paving & Concrete Co. Incorporated with \$10,000 capital stock by Paul Koehler, W. A. Percy and O. W. Fowler.

Muskogee, Okla, - Reduction. duction Co. incorporated with \$12,000 capi-stock by Mex E. Moore, Louis B. Elyea, Ralph W. Leftwich and others.

Muskogee, Okla. — Printing. — Democratic Printing & Publishing Co. incorporated with \$5000 capital stock by S. J. Redman, Wm. F. Garnlee and H. G. Garnlee.

Muskogee, Okla. - Nurserv. - Hyde Park Nursery Co. Incorporated with \$25,000 ca tal stock by C. L. Stone, J. H. Elton, W. Ford and W. S. Hursla.

Nashville, Tenn.—Publishing.—Everybody's Directory Publishing Co. Incorporated with \$20,000 capital stock by James W. Bryan, E. W. Jennings, E. B. Whiteside and others

Natchez, Miss.-Grain Elevator.-T. B. Pos tlethwaite contemplates erection of

New Orleans La-Land Improvement. Greater Louisiana Land & Development Co. incorporated with \$200,000 capital stock by John Liuzza, R. B. Hurst and Theo. Ciaccio.

Newton, Miss.-Hardware.-J. H. Collier Hardware Co. incorporated with \$10,000 cap-ital stock by J. H. Collier, George A. Alex-ander and others.

Norfolk, Va.-Land Improvement .quin Park Corporation incorporated with \$50, 000 capital stock; Fergus Reid, president; T A. Jones, vice-president; J. S. Jenkins, secre tary-treasurer.

Norfolk, Va.-Printing. - H. J. Garnett Printing Co. Incorporated with \$10,000 cap Ital stock; H. J. Garnett, president; E. J. Garnett, secretary; I. A. Garnett, treasurer. Ocean Beach (not a postoffice), Va.—Park. etc.—Capital City Beach Corporation, 921 Mutual Bidg., Richmond, Va., incorporated with \$25,000 capital stock; Thos. P. Bryan sident; Edgar G. Gunn, vice-preside M. Gover, secretary-treasurer; will velop residence resort or park on water from

near Old Point, Va., to be called "Ocean Peach;" will soon ssk bids on sewers, grad-ing and granolithic sidewalks; will erect cot-tages at cost of \$2000 and upward. Oklahoma City, Okla.-City is having plan prepared by Rudolph & Herring, New York, for proposed incinerator plant. (Mentioned

Oklahoma City, Okla.-Land Improvement Blackwelder Place Co. incorporated with \$75,000 capital stock by J. A. Franklin, B. A. Hall, W. G. Bisbee and others.

Oklahoma City, Okla.-Land Development Gas Heights Development Co. incorporated with \$30,000 capital stock by F. L. Gast, Edin Bancroft and F. B. Owen.

Oklahoma City, Okla.—Grain Elevator.—J. H. Pruitt Grain Co. incorporated with \$50,000 capital stock; J. H. Pruitt, Lindsay, Okla., president; J. W. Dixon, Oklahoma City, secetary-treasurer; will erect grain elevator.

Oklahoma City, Okla.-Land Improvement Queen City Development Co. Incorporated with \$5000 capital stock by J. S. Anderson, B. L. Woodworth and R. A. Nelson.

Portsmouth, Va.-Land Improvement.-Mu tual Land Corporation incorporated with \$50,000 capital stock; C. R. Welton, president; Winston Parrish, vice-president; J. C. Parrish, secretary-treasurer

Savannah, Ga.-Cotton Exporting.-Teasdale Cotton Exporting Co. incorporated with \$10,000 capital stock by Wm. H. Teasdale, Albert Howarth and Geo. J. Quint.

Statesville, N. C. — Land Development. — Takoma Land Co. incorporated by R. H. and J. W. McNeill, both of Washington, D. C.

St. Joseph, Mo. — Automobiles. — Robinson Auto & Supply Co. incorporated with \$10,000

capital stock by W. H. Robinson, E. A. King. R. H. Calkins and others.

St. Louis, Mo.—Electric Fixtures, etc.—C. F. O'Reilly Electric & Fixture Co. incorpowith \$2500 capital stock by (O'Reilly, Duepner.

St. Louis, Mo.-Land Development.-Kaemann-Rivers Development Co. incorpore it with capital stock of \$10,000 by Hermann Kaessmann, Niotaze, Kans.; Julian H. Rivers, M. Koessner and others of St. Louis.

St. Louis, Mo.—Electric Fixtures.—C. F. O'Reilly Electric & Fixture Co. Incorporated with \$2500 capital stock by Charles Duepner, C. F. O'Reilly and Clara M. O'Reilly.

St. Louis, Mo.—Publishing.—John W. Cor-ey Publishing & Promotion Co. Incorporated with \$50,000 capital stock by John W. Corley. Effie U. Corley and Robert F. Corley.

Sulphur. Okla.-Publishing.-News Der crat Printing & Publishing Co. incorporated with \$5000 capital stock by S. J. Redman, William F. Granlee and Helen Granlee,

Thomasville, Ga.—Laundry.—B. Edwards warded contract to Henry Arnold, Thomasville, for erection of steam-laundry build-ing; brick; 80x100 feet; mill construction; orted to install additional machinery.

Vidalia, La.-Grain Elevator.-Fred Postle thwaite, Natchez, Miss., will establish grain

Waco, Texas-Land Improvement.—Foster Heights Land Co. incorporated with \$8000 capital stock by W. H. Ross, J. S. Perry and F L. Dennison.

MISCELLANEOUS MANUFACTUR-ING PLANTS

Abilene, Texas - Implements -- Dudley Innent & Manufacturing Co., recently re-ted incorporated with \$25,000 capital dk, is not ready to announce plans; A. H. Kirby, president; Morgan Weaver, vice-president; W. McCullough, treasurer; J. B. Heitchew, secretary; T. J. Dudley, superin-

tendent.

Anderson, S. C. — Fertilizer. — Anderson Phosphate & Oil Čo., J. R. Vandiver, president, will overhaul machinery, install new furnaces, etc., in fertilizer acid chambers, furnaces, etc., in fertilized plant and in future use bin system for mu ufacturing fertilizer. (Previously noted.)

Atlanta, Ga.-Beverages. - Coca-Cola Co. warded contract to Arthur Tufts, Atlanta. for erection of plant previously noted; reinforced concrete; cost \$40,000.

Atlanta, Ga.-Automobiles.-V. H. Kriegs naber and others have organized company to stablish plant for manufacturing auto

Baitimore, Md.—Glass.—Wm. H. Grafflin, 225 East German St., purchased plant of Nivison Glass Co.; has not yet made definite plans for operation.

Baltimore, Md. — Yachts. — Nilson Yacht Building Co., L. J. Nilson, proprietor, Ferry Bar, Baltimore, recently noted to rebuild burned plant, will erect wood and corrugated fron structure; plans by Mr. Nilson; install woodworking and machine shop equipnent, with electric power; man eachts. (See "Machinery Wanted."

Baltimore, Md.—Drugs and Chemicals.— Jarvis Drug & Chemical Co. incorporated with \$50,000 capital stock by Hary C. Jarvis, 400 Park Ave.; J. Wright Naylor, Michael, 462 West Mulberry St., and Walter I. Dawkins, Fidelity Bldg.

Baltimore, Md. — Bottle Fillers. — Brodie Bottle Filler Co. incorporated with \$5000 cap-ltal stock by James K. Palnter, 2025 West North Ave. : Wm. G. Brodie, 2017 West North Ave.; Chapin Ferguson and Caroll Fergus

Baltimore, Md. — Roofing, Paint, etc. — Clarke Asphalt Roofing & Paint Co. Incorpo-rated with \$5000 capital stock by Addison H. Clarke, 319 West Pratt St.; Katherine A. Clarke and Anna T. Walters.

Belhaven, N. C .- Overalls and Shirts .- Belhaven Overall & Shirt Manufacturing Co. orporated with \$50,000 capital stock by W.

Birmingham, Ala.-Plumbers' and Mill Sup plies.—Jefferson Piumbers' & Mill Supply Co. Incorporated with \$25,000 capital stock; C. H. Colvin, president; J. J. Lee, secretary-treas-

Blackstone, Va .- Tobacco .- Blackstone-Virginla Tobacco Co. Incorporated with \$25,000 capital stock; M. A. Jones, president; J. P. Irby, vice-president; C. H. Hardy, secretarytreasurer; will erect 50x150-foot building at cost of \$7000; order placed for machinery costing \$8000; daily capacity, 30,000 pounds

Bristol, Va.-Tenn.-Rectifying.-E. Gouge ontemplates establishment of plant for whis key rectifying.

Cha Cnilds plant Cha melue proof cost not s imple tablis Cun Co. Georg Sloan havir nace, plant

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Charleston, W. Va. - Wrenches. - Eugene Childs and Fred E. Sands, formerly of Tre mont Manufacturing Co., Boston, Mass., are planning purchase of Baldwin Steel Co. plant and to change it to wrench factory.

Charlotte, N. C.-Farm Implements.-Cole Manufacturing Co. will erect six buildings, including foundry; reinforced concrete fire roof construction ; plans by Hook & Rogers Charlotte; electric lighting; freight elevator; cost \$50,000 to \$60,000; date of opening bids not set; manufacture harvester and farming implements.

Chattanooga, Tenn. - Shoes. - R. M. Ros and Michael O'Grady are interested in establishment of \$150,000 shoe factory.

Cumberland, Md.-Glass.-Wellington Glass organized with \$50,000 capital John L. Wellington, president; Johaus, vice-president; Matthew Sloan, secretary-treasurer; recently noted as having purchased and to re-equip, repair fur nace, remove sprinkler system and open plant of National Glass Co.

Daphne, Ala.—Creamery.—A. E. Strong and W. G. Brandenberg will establish cream ery and ice plant. Ala -Creamery -A E Strong

Frederick, Md.-Concentrated Milk.-Baltimore & Washington White Cross Milk Co., E. L. Cockrell, president, Bond Bldg., Washington, D. C., will establish plant and erect buildings recently mentioned; structure to be freproof, 90x80 feet, costing \$10,090; plans by Mr. Lenny, Frederick; cost of machinery, \$25,000; daily capacity, 10,000 gallons concer tented milk

Gadsden, Ala,-Gas Plant,-Tri-City Gas Co., Thomas H. Stephens, vice-president, will resume construction of proposed gas plant to cost \$75,000.

Hagerstown, Md.—Bottle Caps.—Hagers-town Cap Co. incorporated with \$25,000 capi-tal stock by Clarence C. Parket, Edward L. Seigman, Fred. G. Bester and others.

Joplin, Mo.-Signs.-Western Sign Works increased capital stock from \$10,000 to

Lakeside, P. O. Eagle Lake, Texas,-Rice Mills.—John Raezor, manager Lakeside Ca Co., will overhaul rice mills damaged

Lexington, Ky.—Mead Manufacturing Co.. Richwood, Ohlo, Joseph B. Hornes, Williams-town, Ky., president, contemplates establish-ment of plant.

Lexington, Ky. - Tobacco Lexington, Ky. — Tobacco. — Vaughan-Cunningham Tobacco Co. (J. R. Cunningham, T. N. and S. T. Vaughan) will establish tobacco factory previously mentioned; will erect brick and stone building 60x225 feet at cost of \$22,000; will install drier, 150-horse-power boiler, 50-horse-power engine, etc.; power boller, 50-horse-power engine, ecocost of machinery, \$15,000; daily capacity, 100,000 pounds of redried tobacco. (See "Ma-

Louisville, Ky. — Chemical Preparations etc.—Louisville Chemical Co., 594 W. Green St., recently reported incorporated with \$50, 600 capital stock, will establish plant to man ufacture chemical and pharmaceutical pre arations; will erect \$25,000 fireproof buil ing; size 100x200 feet; Dr. G. W. Lawrence ident; W. M. Viser, vice-president; G. L. Webb, secretary-treasurer.

Louisville, Ky.-Soap.-Magic Soap Co., organized by J. H. Haag, New Orieans, La., has secured site and building, and will ex-pend \$15,000 for improvements and equipment.

Memphis, Tenn.—Chemicals.—Chickasaw Chemical Co. Incorporated with \$25,000 capi-tal stock by Jacob Voorheis, M. W. Voor-hels, C. M. Renkert and others.

Nacogdoches, Texas-Tobacco.-Taussig & Co., Chicago, Ill., have leased building and will equip as tobacco packing and curing will equip

Natchez, Miss.—Rice Mill.—Concordia Oil Mills, Vidatia, La., will build rice mill.

Newbern, N. C.-Shoes.-Company organ ized with James R. Gillespie, president; J. T. Havens, vice-president; Alexander Stan-ley, secretary; H. P. Kennedy, treasurer; will establish shoe factory.

New Martinsville, W. Va. — Glass. — New Martinsville Glass Co. awarded contract to Dayton & Francis, New Martinsville, for addition to plant, 40x60 feet.

New Orleans, La.-Drugs. -- Aschaffenhers Drug Co. Drug Co. incorporated with \$50,000 capital stock by J. Loeffler, A. Aschaffenberg and A.

Quanah, Texas.-Creamery.-Establishment of \$6000 creamery is contemplated. Address C. Hagelstein, secretary Commercial Club.

Paducah, Ky. - Stemmery .- John Hodge Henderson, Ky., will erect brick structure

uip as tobacco stemmery.
sville, N. C.—Tobacco.—Reidsville Co Operative Tobacco Co. incorporated with \$50,000 capital stock by P. M. Walker and

San Marcos, Texas-Gas, etc.-San Marcos tillities Co. incorporated with \$200,000 capital steek by V. L. Brooks, R. L. Batta and J. H. Hart; will purchase and maintain mills and gins, manufacture ice, gas, electric light, etc.

S. C.-Guano.-G. W. Gignillist and others reported to begin erection proposed guano factory.

Sherman, Texas-Overalls.-Sherman Ove all Manufacturing Co. incorporated with \$15,000 capital stock by Martin B. Pitts, Miller B. Pitts and S. A. Vittitoe.

St. Joseph. Mo.-Engines.-Uhler Motor Co. 1814.5 Francis St., recently noted incorporated with \$100,000 capital stock to manufacture in-vention which is improvement on internalombustion engines, will have patterns made for three sizes of engines and work done by place for the present; company will assemble parts; contemplates erection of large plant ext year: F. M. Uhler, president: R. S. Graham, vice-president; H. R. Lewis, secretary; E. M. Swartz, treasurer. Grah

St. Loius, Mo.—Paper Boxes.—All-Paper Box Co. incorporated with \$15,000 capital stock by A. E. Buder, G. Wm. Senn and R.

St. Louis, Mo.-Victor Automobile Manu facturing Co., J. F. Harington, 3936 Lacled Ave., president, recently noted to erect \$12, ctory building, has plans by Mr. Har rington for 150x112-foot concrete structure on which \$20,000 is to be expended this year; cost of completed building \$40,000; Mr. Wid-mer, 1921 Wright Bldg., St. Louis, engineer in charge.

St. Louis, Mo.-Iron Beds.-Foster Bros Manufacturing Co., O. S. Foster, president, 1410 North 16th St., recently noted to purchase site and make improvements, will erect four-story fireproof structure; 118x106 feet; cost \$40,000; plans by Richard Irvin, Wright Bidg., St. Louis; will remove machinous present proposent from present proposents. ry from present plant.

Suffolk, Va.-Gas.-Suffolk Gas & Electric incorporated with \$15,000 capital stock;
H. Venable, president; W. W. Starke,
president; M. G. Mulvey, secretary-treasurer, all of Norfolk, Va.

Sulphur, Okla.—Drugs.—Artesian Drug Co. ncorporated with \$20,000 capital stock by J. Jennings, George Slover and John

Tampa, Fla.-Tobacco.-Corral, Woodiska Co. are planning erection of brick factory milding to replace present structure.

Texarkana, Ark.—Fertilizer.—Farmers' Oil Fertilizer Co. organized with \$100,000 capital organized with \$100,000 capital stock; R. J. O'Dwyer, president; will estab lish fertilizer factory. (See "Cottonseed-Oil Milla"

Tullahoma, Tenn. - J. C. Kendrick and Doak Aydelott will rebuild factory, ware house and office building of Tullahoma To-bacco Co. reported burned; loss \$6000.

White Sulphur Springs, W. Va.—Shirts, c.—Kern Manufacturing Co., recently reported incorporated with \$10,000 capital tock, has rented and equipped building for nanufacture of shirts, etc.; H. M. Kern, president; Oscar O'Connell, vice-president; W. S. Bickel, secretary; W. B. Hines, treas

Winchester, Ky. - Wedge Tools.-Amster Metallic Wedge Tool Co., Buffalo, N. Y., will, it is rumored, establish plant for finishing metallic wedge tools.

Winston-Salem, N. C.—Dental Supplies.— Piedmont Dental Supply Co. Incorporated with \$5000 capital stock by Mrs. Flora Wat-kins, J. C. Watkins, J. H. Watkins and R. P. Reece.

Wynnewood, Okla.-Brooms and Syrup Wynnewood Canning and Syrup Factory, T . Threlkeld, proprietor, will install broaking machinery in connection with synctory recently noted; broom capacity, ery in connection with syrup y noted; broom capacity, 50 (See "Canning and Packing factory dozens daily. (See "Canning and Plants" and "Machinery Wanted.")

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

Kansas City, Mo.—Kansas City Southern Railway, A. F. Rust, resident engineer, awarded contract to C. L. Gray Construc-tion Co., 918 Victoria Bldg., St. Louis, Mo., for erection of freight-house previously men 50x400 feet; cost \$60,000; plans by company.

Kansas City, Mo.-Kansas City South Rallway, A. F. Rust, resident engineer, Kansas City, Mo., will spend \$250,000 in improvements to Kansas City terminals, including freight-house in West Bottoms, increased shop facilities in East Bottoms, new ware

directors have accepted city ordinace provid-ing for construction of depot and various extensive terminal improvements, heretofor planned, subject to referendum vote of city plans of various railway companies for ex-ensive terminal improvements heretofore mentioned from time to time; it is contemplated to expend total of \$20,000,000

Macon, Ga.-Central of Georgia Railway o, is proceeding with plant improvements heretofore reported; has completed car shop repair tracks, power-house, reservoir, high service tank with pumping station, etc.; ex pects to complete engine terminal by Sep tember 1: will contract for other work as apidly as possible; has awarded contract or structural steel to American Bridge Co. 30 Church St., New York; erecting shop will have 22 pits with ample machinery, boiler and blacksmith shops, etc.; estimated c of entire improvements, \$1,500,000; C. Lawrence, chief engineer of company, estimated cos vannah. Ga., in entire charge of work and

Shreveport, La. — Kansas City Southern Rallway, A. F. Rust, resident engineer, Kan-sas City, Mo., will increase shop facilities at Shreveport.

Taylor, Texas. — International & Great Northern Bailroad, O. H. Crittenden, chief engineer, Palestine, Texas, awarded contract, it is reported, to Fischer & Lambie, Austin Texas, to construct buildings at Taylor, in-cluding nine-stall engine-house, storeroom, blacksmith shop, car-repair shop, lumber and material yards and cotton platform; mate rial to be mainly reinforced concrete; cost (Recently mentioned.)

ROAD AND STREET IMPROVE-MENTS

Ashville, Ala.—8t. Clair County Road Bond Commissioners, W. S. Forman, secretary-treasurer, have not set time of awarding contract for construction of six miles of across Backbone Mountain; probable 15,000; chert to be used; Charles Dew, lle, engineer in charge; will prepare Ashville, specifications. (Recently noted.)

Atlanta, Ga.—City will open bids August 9 for paving 22,000 square yards on Decatur street with wooden blocks on concrete foundation; also 2300 square yards on Madiso avenue with same material; R. M. Clayto hinery Wanted.") City Engineer.

Atlanta, Ga.—R. J. Freeman, Decatur, Ga., Commissioner of De Kalb county, in con-junction with Silver Lake Land Co., has in-stalled \$15,000 road-building plant for grad-ing and paving Peachtree road, in De Kalb ounty, to Silver Lake, and later through De Kalb county to Gwinnett county line: plant furnished by Silver Lake Land Co., and upon completion of work will become roperty of De Kalb county.

Atlanta, Ga.-City will open bids August S paving Decatur street with concrete blocks: about 22,000 yards; work to be su ised by R. M. Clayton, City Engineer.

Baltimore, Md.—State Roads Commissi John M. Tucker, chairman, Union Tr Bldg., has opened bids for construction eight sections of State highway, aggregating Baltimore, Allegany, Carroll atles; bids are considered av miles, in Baltim essive and will probably be rejected. (Fur ther facts recently stated.)

Baltimore, Md.-City will grade, curb and pave with vitrified paving blocks Stag all from Marion to Lexington street; bids be opened August 4; B. T. Fendall, City En-gineer. (See "Machinery Wanted.")

Beaumont, Texas.—City will open bids August 3 for paving gaps in present paving on College, Austin, Park and Pearl streets, aggregating 4120 square yards vitrified brick paying and 2873 linear feet concrete curbing J. G. Sutton, City Secretary; C. L. Scherer City Engineer. (See "Machinery Wanted.")

ner, Ala.-City awarded contract to M. Burkhaiter & Co., Birmingham, Ala., o lay sidewalks on Berkeley, Dartsmouth nd Clarendon avenues at 39 cents per yard or curbing and 82 cents for cement work; total cost, \$3,640.54.

Birmingham, Ala.-Board of Aldermen authorized purchase of equipment for street and sanitary department, which will aggre-gate \$15,000; Maury Nicholson, City Engineer.

Bluefield, W. Va. - City will extend a acadamize Princeton avenue. Address The Mayor.

Chattanooga, Tenn.-Noll Construction Co. 8 East 6th St., Clinttanooga, is lowest bidder at about \$290,000 for construction of five miles chert rondway, with cement curbs and Kansas City, Mo.—Kansas City Terminal gutters, in Ninth ward; paving districts 1.
Railway Co. (H. L. Harmon, president) 6, 5, 136, 55, 45, 61, 15, 68 and 44; H. F. Van

Dusen, chairman Board of Public Works (Recently mentioned.)

El Paso, Texas.-El Paso County Co sioners will soon award contract for paving Anthony road from Hart's Mill to Couchesne, Mr. Spiecher, Government engineer, will sub uit plans and specifications for building 20-foot road from Courchesne pike to Anthony, distance of 17 miles. Address County Comnissioners.

Elizabethton, Tenn.-City has voted issunce of \$30,000 bonds for street and sewer. Address The Mayor.

England, Ark.-Commissioners of Improve nent District (R. E. L. Eagle, G. W. Morris and J. B. Jones) awarded contract to I Springs (Ark.) Construction Co. to e struct eight miles of concrete sidewalks.

Fort Howard, Md.—Bids will be opened August 27 for construction of 15,000 square feet of granitoid sidewalks at Fort Howard: Major C. C. Ballou, United States Army, Constructing Quartermaster, 427 Custom-house, Baltimore, Md. (See "Machinery Wanted.")

Franklin, La.—City will construct 65,000 square feet cement sidewalks and 32,500 square feet brick curbing; bids to be opened August 5; John C. Lewis, Mayor. (See "Mathered Wester,") hinery Wanted.")

Franklin, La.-City will open blds August for approximately 65,000 equare feet cement idewalks and 32,500 square feet (face measurement) brick curbing; later will contract additional work; John C. Lewis, Mayor. (See "Machinery Wanted.")

Gadsden, Aln.-City has awarded contract at \$41,040 for 22,000 yards of granite curb-ing, and at \$40,128 for concrete curbing to Graves-Matthews Paving Co., Birmingham, Ala.

N. C.-Guilford county will acadamize 16 miles of road. Address County ommissioners.

Hazlehurst, Miss.-Road improvements, recently mentioned, include repairs, at cost of \$2500, to clay road from Hazlehurst to Rockport road, four miles distant; six-inch gravel (from locality) to be laid,

Huntsville, Ala.-City will pave Madie treet. Address The Mayor.

Independence, Mo.—Jackson county awarded contract to Davidson Bros., Kansas City, Mo., for grading road south and west from Dallas distance of 5900 feet at cost of \$3255; will invite bids for grading road from Oak Grove to Jackson-Lafayette county line, dis-tance of one mile, and of Buckner and Grain Valley road to Hiler road. Address County

Jasper, Ala.-Walker county contemplate voting on \$250,000 bond issue for road con-struction. Address County Commissioners.

Jonesboro, Ark.-City will expend \$76,000 in paving streets in haprovement district No. Address The Mayor.

Key West, Fla.-City will vote on issuance bonds for street paving. Mayor.

Knoxville, Tenn. - Oldham-Getaz Company of Knoxville will soon begin work on mon, Boyd's and Nash alleys, which are to be paved with brick; about 3000 yards pavenent; this contract was sublet by Sou Paving & Construction Co., Chattan Paving Tenn., which was awarded original contract.

Lafayette, La.-City awarded contract to West Construction Co., Chattanooga, Tenn., to construct cement walks along Congress and Washington streets; G. A. Martin, Mayor

Lexington, Ky.-City awarded contract to C. C. Miller & Co., Latonia, Ky., to pave North Limestone street with brick; pitch filler; Peebles Paving Brick Co., Porta-mouth, Va., has contract to furnish brick. (Recently mentioned.)

Louisville, Ky.—Board of Public Works will open bids August 5 for vitrifled-brick paving on Bland, Samuel and Dumesnil streets and for vitrifled-brick guttering cost-ing \$4800 on Garvin place, Chestuut, Clay, York and other streets.

Louisville, Ky.-B. C. Milner Sons pany of Louisville is lowest bidder at \$21, 166.40 for paying three blocks of streets with creosoted wooden blocks, work incl 2430 cubic yards excavation, 7330 s yards wood-block pavement and 1300 including curbing; Alexander G. Bame, chairman Board of Public Works.

Marianna, Ark.—City will open bids August 5 for 13,400 square yards vitrified block paving on five-inch concrete base, and 4000 linear feet concrete curb, etc.; J. E. Stevenson, secretary Board Commissioners; Ben C. McGehee, Little Rock, Ark., is (Recently mentioned. See "Machinery Wanted.")

Memphis, Tenn.-City opened bids July 29

for furnishing labor, tools, hauling and materials for following work: North 3d street, covering present granite pavement with sheet asphalt, 3200 square yards; South Wellington street, sheet asphalt, 4200 square yards; North and South Waldran boulevard, grading 2000 cubic yards, sheet asphalt 8500 square yards; Washington avenue, sheet asphalt, 25,000 square yards; South 3d street, vitrified brick on concrete, 11,000 square yards; 7th street, grading 3000 cubic yards; alternate bids on sheet asphalt and vitrified brick on concrete foundation, 13,400 square yards; James H. Malone, Mayor.

Montgomery, Ala.—City will open bids August 2 for street paving, estimated by City Engineer, A. R. Gilchrist, to cost as follows: Mildred street, \$9000; South Lawrence, High to Jeff Davis, \$23,000; South Lawrence, Jeff Davis to Julia, \$4850; Improvement Clithrent street, \$1650; sidewalk paving, Union street, \$300; South Lawrence, \$7750; Jefferson, \$1000; Stevenson, \$3200; East Jeff Davis, \$2800; Julia, \$2900. (Recently mentioned. See "Machinery Wanted.")

Mulkey, Okla.—Wilson township of Carter county will vote August 14 on issuance of \$10,000 of bonds for road construction. Geo. Presley, president township board directors.

Nashville, Tenn.—Board of Public Works will soon award contract for laying 2000 square yards granitoid sidewalk in annexed territory; W. W. Southgate, City Engineer.

Newberry, S. C.-City voted issuance of \$300,000 of bonds for road construction. Address County Commissioners.

New Orleans, La.—City opened bids July 27 for paving City Park avenue with mineral rubber asphalt; estimated cost \$175,000; W. J. Hhrdee, City Engineer. (Recently mentioned.)

New Orleans, La.—W. H. Douglas, New Or leans, was lowest bidder for paving of Charters street from Elyslan Fields to French men street; to cost \$5000.

North Birmingham, Ala.—City will grade, macadamize, lay concrete sidewalks and gutters, granite curbs and drains on 26th street, 24th street, 19th and 20th avenues, etc.; bids to be opened July 27; A. J. Hawkins, City Englaeer. (Date postponed from July 10 to July 27. See "Machinery Wanted.")

Pensacola, Fla.—City opened bids July 27 for construction of hard road, of clay and City Engineer.

Pensacola, Fla.—City will grade certain streets; work consists of excavating and hauling 8000 cubic yards material; bids opened July 28; L. E. Thornton, City Engineer.

Portsmouth, Va.—City will construct 435 square yards concrete sidewalk pavements and 1100 square yards granite block gutters on certain streets in West Park View; blds to be opened August 5; E. B. Hawks and S. T. Montague, chairmen street committee; Bascom Sykes, City Engineer. (See "Machinery Wanted.")

Richmond, Va.—Bids will be opened August 5 for construction of two miles of macadam on Cary Street road; P. St. J. Wilson, State Highway Commissioner. (See "Machinery Wanted.")

Sanford, N. C.—City awarded contract to Grantham & Sutton, Greensboro, N. C., for construction of concrete sidewalks recently mentioned; material, to be furnished by city, has been ordered.

Spartanburg, S. C.—Spartanburg county will vote on issuance of \$400,000 of bonds for road construction. Address County Commissioners,

Tazewell, Va.—S. Walton, Falls Mills, Va., has contract at about \$4500 per mile to construct six and one-half miles of road in Tazewell county.

Towson, Md.—Baltimore County Commissioners awarded contract to P. Flanigan & Sons, Lexington and Calvert Sts., Baltimore, to pave 1st street, Canton, with vitrified brick on concrete base. (Recently mentioned.)

Tulsa, Okla.—City will receive bids on brick, asphalt and bitulithic paving (45,000 square yards) until August 3; plats, plans, etc., on file at office of City Engineer; E. B. Cline, City Auditor.

Vicksburg, Miss.—City will pave Cherry street with asphalt, bitulithic or other material; bids to be opened September 6; C. R. Twiss, City Engineer; J. J. Hayes, Mayor. (See "Machinery Wanted.")

West Blocton, Ala.—City will open bids July 30 for certain grading, curbing, macadamizing and brick gutters; Totten & Ohl, City Engineers, Birmingham, Ala. (See "Machinery Wanted.")

Winston-Salem, N. C.-G. E. Webb, R. C. Norfleet and others are interested in construction of road from Walnut Cove to Pledmont Springs; estimated cost \$50,000.

SEWER CONSTRUCTION

Beaumont, Texas.—City is considering voting August 31 on issuance of \$75,000 of bonds for extension of sewer system. Address The Mayor.

Canyon City, Texas.—City voted bond issue of \$25,000 for sewerage system and waterworks; sewer system to include 28,200 feet 6, 8, 10 and 12-inch vitrified sewer main, septic tank, etc.; A. F. Mantz, engineer.

Corsicana, Texas.—City is considering extension of sewer system. Address The Mayor. Isalias, Texas.—Board of City Commissioners decided upon construction of storm sewer on East Elm street. J. M. Preston, City Engineer, will prepare plans, and J. B. Winslett, City Secretary, will invite bids; estimated cost \$19,436.12.

Dalias, Texas.—Board of Municipal Commissioners awarded contract to Ockander Bros. of Dalias at \$7750 to construct 6000 feet of sanitary sewer of 8 to 12-inch size; this will later connect with large sewer to extend through South Dalias from Fair Park to Trinity River.

Elizabethton, Tenn.—City has voted issuance of \$30,000 bonds for sewer and street improvements. Address The Mayor.

Georgetown, Texas.—Georgetown Sewer Co. (not "city") will make improvements to sewer system recently mentioned; small extensions.

Jellico, Tenn.—City voted \$45,000 bond issue for construction of sewer system; S. B. Snyder, Mayor. (Recently mentioned.)

Louisville, Ky.—Commissioners of Sewerage, Equitable Bldg., will open proposals August 6 for construction of section B of Western interceptor; contract No. 49; portion of comprehensive system heretofore mentioned; unreinforced concrete sewer 7 feet 6 Inches and 5 feet in diameter; 4000 feet long; 12 to 15 feet deep; including 1875 cubic yards concrete; consulting engineer, Harrison P. Eddy, 14 Beacon St., Boston, Mass. (See "Machinery Wanted.")

Moultrle, Ga.—City awarded contract to Dysard & Co., Atlanta, Ga., at \$14,808 for laying remainder of sewers; H. S. Jaudon, Box 582, Savannah, Ga., is engineer; W. D. Scott, Mayor. (Recently mentioned.)

Nashville, Tenn.—Board of Public Works will introduce appropriation bills amounting to \$22,000 for sewers in various parts of city; W. W. Southgate, City Engineer.

North Birmingham, Ala.—City will construct storm sewer beginning at city limits of Birmingham and ending at Village Creek and 23d avenue; same to be constructed of brick or reinforced concrete pipe and terracotta; bids to be opened July 27; A. J. Hawkins, City Engineer. (Date postponed from July 10. See "Machinery Wanted.")

Reidsville, N. C.—City contemplates voting on bond issue for sewer construction, etc. Address The Mayor.

Sanford, N. C.—City is considering bond issue for construction of sewer system. Address The Mayor.

San Marcos, Texas.—Sewer Company incorporated with \$45,000 capital stock by V. L. Brooks, R. L. Batts and J. H. Hart.

Vicksburg, Miss.—City will lay storm sewer on Cherry street; bids to be opened September 6; C. R. Twiss, City Engineer; J. J. Hayes, Mayor. (See "Machinery Wanted.")

Wilburton, Okla.—City voted \$25,000 bond issue for construction of sewer system. Address The Mayor.

TELEPHONE SYSTEMS

Amarillo, Texas.—Southwestern Telegraph & Telephone Co., main office Dallas, has purchased line between Amarillo and Childress and will Install full copper circuit where connections will be made with present lines.

Catlettsburg, Ky.—Boyd county has granted 20-year franchise to John Hazlett Telephone Co. to operate telephone system.

Charleston, W. Va.—Southern Bell Telephone & Telegraph Co., main office Atlanta, Ga., will expend \$35,000 for extension of lines; will construct two lines to Huntington, one to Boone coal field, Griffithsville oil field, Roane oil field, and one along Virginia Railway; also reported as having purchased People's United Telephone Co. of Buckhannon and Weston, W. Va.

Dacoma, Okla.—Citizens' Telephone Co. Incorporated with \$1000 capital stock by Frank B. Boorn, A. W. Lewis and W. C. Hendricks. Gillett, Texas.—Harmony Telephone Co. incorporated by William Patton, S. F. Aus-

tin and J. B. Carmichael, Jr.
Greensboro, Ga.—South East Guilford Tele-

phone Co. incorporated with \$3000 capital stock by S. C. Jones and others.

Huttonsville, W. Va.—Citizens' United Telephone Co., Wheeling, W. Va., John R. Walton, president, will apply for franchise to construct and maintain telephone system.

McClellanville, S. C.—McClellanville Telephone Co. Incorporated by Henry T. Morrison, Richard M. Lofton and Henry M. Lofton, Jr.

Mill Creek, W. Va.—Citizens' United Telephone Co., Wheeling, W. Va., John R. Walton, president, will apply for franchise to construct and maintain telephone system.

Ripley, Okla.—Olive Grove Telephone Co. Incorporated by J. B. Bennett, Harry Geer and W. F. Tietz.

Stillwater, Okla.—Payne County Rural Telephone Co. Incorporated with \$15,000 capital stock by H. A. Jones, O. W. Trigg and S. H. Stanley.

Weatherford, Okla.—Farmers' Mutual Telephone Co. has increased capital stock to \$10,000.

TEXTILE MILLS

Arcadia, S. C.—Sheeting.—Arcadia Mill awarded contract, as lately reported, to Gallivan Building Co., Greenville, S. C., for erection of additional building; latter will be 105x255 feet, of brick; will install 10,000 spindles and 250 looms; all contracts awarded; J. E. Sirrine, Greenville, S. C., engineer in charge.

Charlotte, N. C.—Cotton Batting.—Jasper Miller Son's Company incorporated with cap Ital stock of \$20,000 by Jasper Miller and associates; will manufacture cotton batting

Edgefield, S. C.—Cotton Cloth.—Beaver Dam Mills will be incorporated with capital stock of \$200,000 to acquire Edgefield Manufacturing Co.; now has 5000 spindles, 328 fooms, etc.; will increase to 10,000 spindles; B. F. Zimmerman, Greenville, S. C., president and treasurer.

Hickory, N. C.—Sateens, etc.—Ivey Cotton Mill Co. will add 200 looms; has begun construction of two-story additional building, 75x168 feet; new equipment will double output; now has 7770 ring spindles, 200 broad looms, etc.

Kansas City, Mo.—Knit Goods.—Goonenow-Brookfield Kalitting Co., recently reported incorporated, has organized with J. Frank Goodenow, president-secretary-treasurer: Arthur D. Brookfield, manager; Rudolph Mueller, superintendent; has installed machinery for knitting coats; electric power; main office. 211 Westport avenue.

Lexington, N. C.—Print Cloth, etc.—Dacotah Cotton Mills, Nokomis Cotton Mills and Wennonah Cotton Mills, C. A. Hunt, Jr., president of each company, have contracted with Southern Power Co. (main office, Charlotte, N. C.) for electricity; awarded contracts for electrical motors, equipment, etc., for transmission of 2000 horse-power.

Memphis, Tenn. — Bag Cloth. — American Bag Co. will organize company to build mill for manufacturing bag cloth; will probably capitalize at \$250,000.

Monroe, La. - Cotton Batting. - W. B. Smith, Ruston, La., is reported as planning formation of company to build cotton-batting mill at cost of \$50,000.

Rockingham, N. C.—Shirting, etc.—William Entwistle and George E. Entwistle, both of Pee Dee Manufacturing Co., will organize Entwistle Manufacturing Co., to build mill of 40,000 spindles and 1000 looms; has not engaged enginer; will probably have capital stock of \$1,000,000; Wm. Entwistle, president; W. B. Cole, vice-president and general manager; Geo. P. Entwistle, secretary-treasurer.

Zirconia, N. C.—Cotton Yarn.—Green River Manufacturing Co. is reported as to add 2280 spindles and other machinery; now has 7300 ring and 2500 twister spindles, etc., driven by electricty.

WATER-WORKS

Baltimore, Md.—Board of Awards awarded contract, at \$41,000, to Edgemoor Iron Co. of Edgemoor, Del., for pipe-line boilers; F. H. Wagner, consulting engineer.

Baltimore, Md.—Alfred M. Quick, water engineer, recommends installation of additional pump of 25,000,000 gallons capacity in Mt. Royal pumping station to improve water supply in western district; cost \$150,000.

Canyon City, Texas.—City voted bond is sue of \$25,000 for water-works and sewer system; water-works probably to consist of 36,000-gallon tank elevated 80 feet from ground, and 100,000-gallon reservoir, to be supplied with water by present light plant; also 6300 feet six-inch main, with plugs; A. M. Mantz, engineer.

Emporia, Va.—City is considering installation of filter plant to have capacity of 500,000 gallons dally; C. L. Broadwell, superintendent water-works department.

Henryetta, Okla.—City has engaged Gran-

Henryetta, Okla.—City has engaged Granberry Jackson, Mount Pleasant, Tenn., to prepare plans and supervise construction of water-works; probably gravity system and concrete surface reservoir, with steel standpipe, etc.; competitive bids to be asked after plans are ready—probably in September; \$50,000 bond issue voted.

Highland Park, P. O. Richmond, Va.—City Invites bids until July 31 for drawing plans and specifications for water-works and electric-light systems; W. T. Quarles, chairman committee on light and water, 514 Fifth Ave. (Recently noted. See "Machinery Wanted.")

Jellico, Tenn.—City voted \$45,000 bond issue for construction of water-works; preliminary surveys have been made for gravity type system, water to be secured from mountain two miles distant, between which and city there is an estimated fall of 350 or 400 feet; nine miles of piping will be laid; S. B. Snyder, Mayor. (Recently mentioned.)

Knoxville, Tenn.—City Council voted to purchase Knoxville Water Co.'s plant for \$1,250,000; S. D. Newton, City Engineer.

Leesburg, Fla.—J. Y. Clark, manager Leesburg Ice Co., recently noted to have been awarded 30-year water franchise, reports all contracts let and construction begun.

Lexington, Tenn. — City contemplates installing water-works and electric-light plant and wants to correspond with consulting engineer representing machinery company; expenditure not to exceed \$15,000. Address II. E. Graper, Lexington. (Previously mentioned. See "Machinery Wanted.")

Mission Ridge, P. O. Chattanooga, Tenn.— Mission Ridge Taxing District Commissioners, Robt. P. Woodard, president, Miller Bidg., Chattanooga, arranged with Chattanooga City Water Co. for establishment of waterworks system on Mission Ridge; water mains to be installed and standpipe erected; pumping station to be installed at Ridgedale. (Bond issue of \$25,000, etc., recently noted.)

Moultrie, Ga.—City awarded contract to General Pipe & Foundry Co., Atlanta, Ga., at \$11,232 for furnishing water mains; Sullivan & Long, Bessemer, Ala., at \$1781 for laying same; R. D. Cole Manufacturing Co., Newnan, Ga., at \$5750 for steel standpipe; Columbia Iron Works, Chattanooga, Tenn., for hydrants, valves, etc.; Platt Iron Works Co., Dayton, Ohlo, at \$1850 for pump. II. S. Jaudon, Box 582, Savannah, Ga., is engineer; W. D. Scott, Mayor. (Recently mentioned.)

Nashville, Tenn.—Board of Public Works will soon award contract for laying 28,000 feet of water main in annexed territory; this will make 22 miles of mains, laying of which has been contracted for during 1900, and will probably cover \$300,000 fund received from sale of water-main bonds last year; W. W. Southgate, City Engineer.

Okemah, Okla. — M. A. Earl, Muskogee, Okla., is preparing plans, it is reported, for water-works and electric-light plant; estimated cost \$50,000.

Perry, Ga.—City engaged Hazelhurst & Anderson, Atlanta, Ga., as engineers for water works, for which \$15,000 bond issue was recently reported voted. Bids will be opened August 18; F. M. Houser, Mayor. (See "Machinery Wanted.")

Pulaski, Va.—Town Council awarded contract to Lowe & Shoecraft, Bristol, Va.-Tenn., for construction of storage dam and pipe line leading therefrom to town reservoir; dam to contain 750 cubic yards of concrete and 20 tons of reinforcement; 15,000 feet of 12-inch cast-iron mains; estimated cost \$40,000; G. H. Derrick, engineer; A. B. Hunt, clerk. (Recently noted.)

Quanah, Texas.—City will vote August 11 on issuance of \$30,000 of bonds for extension of water mains. Address The Mayor.

Rayne, La.—City voted \$5000 bond issue for extension of water-works. Address The Mayor. (Recently mentioned.)

Ruxton, Md.—Ruxton Heights Water Co. incorporated with \$1000 capital stock by John M. Shea and Luke P. McGuire, both of Shea & McGuire, 506 North Gay St., and Joseph L. McGuire, 736 East 21st St., all of Baltimore, Md.

Seneca, S. C.—Reported that contract will soon be let for installation of water-works system. Address Dr. W. F. Austin for information.

Smithfield, N. C.—Johnston County Commissioners, Sam T. Honeycutt, clerk, invite bids until September 6 for system of waterworks for courthouse and jail. (See "Machinery Wanted.")

Teague, Texas. — City contracted with Layne & Bowler, Houston, Texas, to supply 200,000 gallons of water daily, water to be secured from wells near pumping station.

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Texas City, Texas.—The Texas City Co, A. B. Wolvin, president, Duluth, Minn., is asking bids on water-works system; for water-works and fire protection; previously noted to include tank of 100,000 gallons capacity and pumping station at terminal de-pot shops; also two additional artesian wells. (See "Warehouses.")

Tyler, Texas.-City voted \$11,000 bond issue to extend water-works into North Tyler; about two miles of six-inch mains to be laid; John H. Bonner, Mayor. (Recently men

Vicksburg, Miss.—City will lay water main on Cherry street; bids to be opened September 6; C. R. Twiss, City Engineer; J. J. Hayes, Mayor. (See "Machinery Wanted.")

Wagoner, Okla.—City will vote in August on issuance of \$200,000 water works, electric light and city hall bonds. Address The

Wilburton, Okla.—City voted issuance of \$55,000 of bonds for purchase of water-works and \$15,000 for improvement of same. Address The Mayor.

- City Winnsboro, Texas. water-works bonds. Address The Mayor,

WOODWORKING PLANTS

Cotton Plant, Ark.—Staves and Hoops.— Standard Stave & Hoop Co., B. G. Ohmit, president, has ordered machinery for plant recently mentioned; will erect two wood buildings 32x144 and 32x60 feet in size: cost of buildings, \$2500; daily capacity, 50,00 staves and 45,000 hoops; J. W. Baker, man ager.

Davidson, N. C.-Woodworking. - Messrs. Bratton will establish woodworking and machine shop.

Elizabethton, Tenn.-Bobbins, Spools, etc. Sherwood Bobbin & Manufacturing Co., Greensboro, N. C., has dismantled plant for shipment to Elizabethton, where it will re-sume manufacture of bobbins, spools, skewers, etc.; will operate as Tennessee Bobbin & Spool Co., with M. S. Sherwood as gen-eral manager. He was secretary-treasurer of Sherwood Company.

Ficklen, Ga.—Spokes and Handles.—Ficklen Spoke & Handle Co. incorporated with \$10,-000 capital stock by L. M. Wells, W. E. Wells, M. W. Berry and others.

Hammond, La.—Boxes.—Farmers' Box Co. incorporated with S. J. Graham, president and general manager; E. W. Vinyard, vice-president; W. R. Whitney, secretary-treasurer; will establish plant for manufacturing fruit and vegetable boxes.

Lake City, Fla.-Barrels, etc.-D. W. Brown has awarded contract for remodeling old Seminole Lumber Co.'s plant into cooperage plant.

Mobley, Ark.—Staves.—Mount Olive Stave Co., Batesville, Ark., will not establish stave factory at Mobley recently reported. Mount Olive, N. C.—Fruit and Truck Pack-

ages.—Mount Olive Manufacturing Co. or-ganized with \$20,000 capital stock by J. R. Bell, H. C. Hatcher and J. H. Pierce to manufacture fruit and truck packages; con-template operation by August 15.

Norfolk, Va.—Furniture.—Phillips Furni-ture Co. Incorporated with \$50,000 capital stock; S. C. Phillips, president; M. P. Stone, vice-president; V. D. Phillips, secretary-treas-

Shreveport, La.—Boxes.—Felig Bros. Box Manufacturing Co., St. Louis, Mo., contemplates establishment of box factory.

Walterboro, S. C.-Furniture.-Cook-Green Furniture Co. incorporated with \$3000 capital stock; W. S. Cook, president; E. D. Green, secretary-treasurer.

BURNED

Baconton, Ga.-Jackson Supply Co.'s gin-

Bonanza, Ark -- First State Bank's build-Bonanza, Ark.—First State Bank's building, loss \$20,000; Bonanza Hardware Co.'s store building, loss \$35,000; J. B. Gray's building, loss \$8000; Wright Drug Co.'s building, loss \$16,000; U. G. Hamilton's building, loss \$16,000; U. G. Hamilton's building, loss \$2500. loss \$5000

Browndel, Texas.—Kirby Lumber Co.'s saw mill, planer, dryklins and 12,000,000 feet lum-ber; loss \$300,000; main office, Houston, Texas

Chattanooga, Tenn.—Keith Hotel, C. M. nd T. R. Preston, proprietors, damaged;

Conway, Ark .- Mal D. Jones' residence;

Dallas, Texas,—Morton J. Smith's livery table, owned by Phillip Sanger estate; loss

Delhi, La.-J. L. Alfrey's heading mill;

Guion, Ark.-J. W. Williamson's gin and grist mill.

Hagerstown, Md.-Joseph G. Ernst's barn at Dry Run; loss \$7000.

Keyser, W. Va.—Farmers' Exchange flour-ing mill; loss \$12,000.

Lawrenceburg, Tenn.—Gibbs & Belew Build-ng, used as theater, postoffice, etc.; loss

Livingston, Ala.-T. L. Smith's residence, earn and outbuildings; loss \$8000.

Mart, Texas.—Mart Home Light & Power o.'s plant; loss \$5000; J. Earle, Waco, Texas,

Maryville, Mo.-F. G. Shoemaker's ice and torage plant.

Masontown, W. Va.—Hotel Altman, loss \$125,000; Henry L. Hershfield's store, loss \$10,000; Charles Richey's furniture store, loss \$15,000; L. H. Miller's department store, loss \$5000; First National Bank's building; Tri-State Telephone Co.'s exchange; F. M. Golley's store; F. S. Hawkins' photograph gallery; R. J. Anderson's store; Charles Gordon's restaurant; total loss, \$300,000.

Montgomery, Ala.—Atlantic Coast Line Railroad's West End car department, comprising paint, carpenter and repair shops, erecting shed and doctor's office; loss \$15,000; E. B. Pleasants, chief engineer, Wilmington, N. C.

Mountain Park, Okla.—Farmers & Mer-chants' Cotton Gin Co.'s plant.

Owenton, Ky.-The Holbrook Block; D. H. Daniel's clothing store, loss \$25,000; N. Tom-lin's store and market, loss \$2500.

Pollock, La.-Bank of Pollock's building; Wainwright & Tate's store building; Charles Kitterlins' stable.

Richmond, Va.—Southern Railway's Belle Isle bridge, between Richmond and Belle Isle, in James River; loss \$50,000; D. W. Lum, Washington, D. C., company's chief

Roanoke, Va.-Leonard Bros.' sawmill.

Roanoke, Va.—Huff Mill property occupied as storage warehouse by Norfolk & Western Railway; C. S. Churchill of Roanoke, chief engineer; loss \$8000.

Romney, W. Va.—Farmers' Exchange flour-ng mill; loss \$12,000.

Rowland, N. C .- Farmer & Roberts' planing

South Pittsburg, Tenn.—Municipal jail. Address The Mayor.

Springfield, La.-G. H. A. Thomas Com-any's sawmill; loss \$25,000.

Stilson, Ga.-J. D. Strickland's residence; oss \$5000.

Tullahoma, Tenn.—Tullahoma Tobacco Co.'s factory, warehouse and offices, owned by J. C. Kedrick, Jr., and Doak Aydelott; s on building \$6000.

Union City, Tenn.-Nailling Drug Co.'s building, loss \$10,000; Sid Waddell's building,

Washington, D. C .- National Purity Paper Bottle Co.'s plant in Syphax Court, betwee 3d, 4½, K and L streets S. W.; loss \$11,000.

Waynesboro, Va.-J. W. Ellison, Son & Co.'s two warehouses.

DAMAGED BY STORM.

Brazoria, Texas.—Texas Land & Sugar Co.'s ugar mill and other buildings; loss \$275,000. Galveston, Texas .- Galveston Fishing & Galveston, Texas.—Galveston Fishing & Amusement Co.'s pier, loss \$16,500; Galveston Fishing Club's pier, loss \$6000; Tarpon Company's fishing pier, loss \$10,000; Murdoch & Co.'s bathhouse, loss \$20,000; bathhouse of Breakers C, Jack Pearce, president, loss

BUILDING NOTES

APARTMENT-HOUSES

Chattanooga, Tenn.—John C. and Chas. W. Fwinam, Temple Court, will award subcon-tracts (no general contract) for erection of \$26,000 apartment building previously men-tioned; three stories and basement; pressed brick with stone trimmings; 68x100 feet; steam heat; tile in bathroom and balls; electric and gas lighting; six five-room and six four-room apartments; plans by J. G. Barnwell, The Elizabeth, Chattanooga.

Chattanooga, Tenn. — Sidney B. Wright, Times Bldg., will award subcontracts (no general contract) for erection of three-story-and-basement brick apartment-house recently described; six apartments: hot-water or steam heat; plans by Adams & Alsup, James Bldg., Chattanooga.

Dallas, Texas,-Mrs. M. E. Fendrick will erect store and apartment-house; two stories; brick; cost \$880; J. Dawson Matthews

is architect: Mrs. Nellie S. Smith, con-

St. Louis, Mo.-Joseph Weiser purchased site 30x156 feet on which to erect apartment-

St. Louis, Mo. - Conrad Bloomeyer will three-story apartment-house to cost

BANK AND OFFICE BUILDINGS

Brownwood, Texas. — Citizens' National Bank accepted plans for two-story bank building to replace burned structure; cost \$25,000. (Recently mentioned.)

Dacula, Ga.-Dacula Banking Co., A. M. Wilson, president, will erect bank and office building; 25x60 feet; 40 feet for bank; semi-fireproof. (See "Machinery Wanted.")

Flat Creek, Tenn.—Flat Creek Savings Bank, G. F. Shofner, president, awarded con-tract to F. P. Hix, Shelbyville, Tenn., for erection of \$2000 bank building recently men-tioned; pressed brick; 20x40 feet; semi-fire-proof; will install bank fixtures.

Hendersonville, N. C.—G. W. Reagan, Gastonia, N. C., will erect three-story office building costing \$15,000.

Hendersonville, N. C. — People's National Bank, John Carter, president, will erect bank building; marble front.

Lockhart, Texas.-Union Bank & Trust Co San Antonio, Texas, leased Henderson Build-ing at Lockhart and will remodel; James G. Burleson will be in charge.

Lynchburg, Va.—Berry & Stroud awarded contract to W. B. Snead & Son of Lynch-burg to erect store and office building; three stories and basement; brick; 38x132 feet; steam heat; hot and cold water on each floor; bathrooms; plans by Heard & Card-well of Lynchburg.

Malone, Texas.—E. L. Routh opened bids fully 26 for erection of two-story bank and office building.

Matthews, N. C.-B. D. Funderburk, vicepresident Bank of Matthews, will erect bank building; brick; two stories; frontage 50 feet,

Memphis, Tenn. — Building committee of Exchange Building Co., John Sneed Williams, chairman, accepted exterior plans by N. W. Woods, Jr., Memphis, for Exchange Building recently mentioned; 18 stories; first three stories of granite and remainder of brick with terra-cotta trimmings; steel frame; eight elevators; entire investment, st 250000 \$1,250,000.

Meridian, Miss.-W. M. Wagner and Dave King will erect office building at Twenty-sec-ond avenue and 6th street; seven stories; cost about \$100,000; plans by Bert Stewart, Meridian.

New Hope, Ala. — Bank of New Hope awarded contract to R. G. Ross, Decatur, Ala., to creet bank building.

Ocean Springs, Miss.—Proposals will be opened August 4 for construction of two-story bank and office building; certified check, \$300; plans and specifications may be had by applying to Ocean Springs State Bank or to Wm. Drago, architect, 715 Hennen Bidg., New Orleans, La.

Raleigh, N. C.-Wake County Savings Bank is having plans prepared by Barrett & Thompson of Raleigh for bank building; stone : glass front.

Richmond, Ky.—Big Hill Coal Co., Harry P.
Jones, president, general office Union Trust
Bidg., Cincinnati, Ohio, awarded contract to
William Bowman, Richmond, for erection of
\$7000 office building; size, 40x00 feet; mill construction; hot-air heat; electric lighting;
plans by Chas. Moorman, Richmond.

Rock Hill, S. C.—People's National Bank & Trust Co. awarded contract to J. A. Jones, Charlotte, N. C., for erection of bank build-Chariotte, N. C., for erection of bank bulla-ing; four stories; stone, pressed brick and terra-cotta; hardwood floors; steel frame; cost \$30,000; electric lighting; electric, eleva tors; plans by Shand & La Faye, Columbia, S. C. (Recently mentioned.)

San Angelo, Texas.-San Angelo Bank Trust Co. organized Trust Building Co. with St50,000 capital stock to erect bank and office building; slx stories; steel and reinforced concrete; cost \$100,000.

concrete; cost \$199,000.

San Angelo, Texas.—San Angelo Bank & Trust Co. organized Trust Building Co. with \$150,000 capital stock to erect bank and office building; six stories; steel and reinforced concrete; cost \$100,000. Sanguinet & Staats, Fort Worth, Texas, will prepare plans and specifications. specifications.

Sanford, N. C.—Dr. I. H. Lutterloh and Rev. R. W. Baily will erect \$10,000 combina-tion bank and office and store building; con-tract awarded to John W. Brown, Sanford. (See "Miscellaneous Structures" and "Ma-chinery Wanted.")

Thomas, Okla.-Farmers' State Guaranty

Hank, J. S. Huston, president, contemplates erection of building in about one year. (See "Machinery Wanted.")

Tyronza, Ark.—Bank of Tyronza, W. A. Seasley, president, will erect brick bank building.

Washington, D. C .- W. H. Walker and O. Washington, D. C.—W. H. Waiker and U. H. P. Johnson have purchased site and will erect seven-story fireproof office building with white terra-cotta front; plans by Mil-burn, Heister & Co., Home Life Bidg., Washington, D. C.; contracts to be awarded as soon as plans are completed.

Washington, D. C .- Southern Railway Co. Washington, D. C.—Southern Railway Co. is having plans and specifications prepared by Milburn, Heister & Co., Home Life Bidg., Washington, D. C., for construction of proposed office building on D street N. E. between 1st and 2d streets; building will be 142x168 feet; seven stories; steel frame construction; reinforced concrete floors and roof; terra-cotta block partitions; exterior will have granite base and unglazed light terra-cotta front; pressed-brick side walls to match terra-cotta color; interior wood trim of oak; ornamental-iron stairways; marble treads and risers; electric elevators; electric treads and risers; electric elevators; electric lift for handling mail; electric lighting fix-tures; telephone system; low-pressure direct steam heat.

West Monroe, La. — West Monroe State Bank, S. L. N. Larche, president, will erect \$5000 two-story fireproof brick bank building; gas lighting. (Recently noted under "Mon-

CHURCHES

Berkley Station, Norfolk, Va.—Eerkley Avenue Baptist Church awarded contract to John W. Jones of Berkley at \$7000 to enlarge and improve edifice; 10 Sunday-school rooms to be added and about 150 seats to audito-rium; plans by Lee & Diehl, Norfolk. (Recently mentioned.)

cently mentioned.)
Charlotte, N. C.—Chalmers Memorial Associate Reformed Presbyterian Church, Rev. R. E. Hough, pastor, will have plans prepared by Hunter & Gordon of Charlotte for editice; brick and stone; seating capacity, 760; cost \$15,000; contract to be let about Occidence of the property of the contract of the tober 1; S. W. Dendridge, chairman building committee. (Recently mentioned.)

Chattanooga, Tenn. — Cumberland Presby-terian Church will erect edifice to cost \$50,000. Address The Pastor, Unionist Branch, Cumberland Presbyterian Congregation.

Durham, N. C.-White Rock Baptist Church has plans by Hill C. Linthicum, Durham, for deling edifice; cost of improvem

Durham, N. C.—St. Joseph A. M. Church has plans by Hill C. Linthicum, Durham, for mprovements to structure; improvements to impr cost \$15,000.

Lovelady, Texas.—Church of which Rev. J. N. Malner is pastor will erect \$5000 edi-fice; plans by J. F. Brook, Palestine, Texas.

East Chattanooga, Tenn.—East Chattanooga Baptist Church, A. P. Moore, pastor, will erect \$0000 brick editice previously noted; metal-shingle roof; concrete foundations, hard pine anterior finish; pians by R. H. Hunt, James Bidg., Chattanooga; contractor, Joseph T. Horner, 701 Glass St., East Chattanooga

Fulton, Ky.-First Christian Congregation will remodel and enlarge edifice at cost of \$3000. Address The Pastor, First Christian Church.

Gainesville, Ga.-M. D. Hudson of Gaines ville has contract to erect brick church build-ing at Nails Creek, in Banks county; will require 250,000 brick, which will be manufac tured on site.

Mangum, Okla.—Baptist congregation ported to erect \$25,000 edifice. Address The Pastor, Baptist Church.

McMechen, W. Va.—First M. E. Church will erect edifice. Address The Paster First M. E. Congregation.

Meridian, Miss.—Fifteenth Avenue Baptist Church, Rev. I. A. Hailey, pastor, will re-model edifice, expending \$5000.

Oklahoma City, Okla.—St. Paul's Episcopal Church secured permit for proposed enlarge-ment of edifice at cost of \$10,000; L. C. Stone of Oklahoma City, contractor.

of Oklahoma City, contractor.

Okmulgee, Okla,—Bids will be opened August 2 for erection of brick and stone building for First Methodist Church; plans and specifications furnished by Griffith and Kelth of Sapulpa and may be seen at office of architects or of O. K. Plumbing Co., Okmulgee; bids are to include everything to complete building except plumbing, heating, finish hardware, and all glass, except what is necessary to cover dome; certified check, 5500; O. A. Lambert, chairman of committee.

Pflugerville, Texas.—S. F. Evens and L. M.

Pflugerville, Texas.—S. F. Evens and L. M. Lee, Taylor, Texas, have contract for erec-

tion of edifice for German Lutheran congre brick veneer structure: cost Henry Struve, Taylor, Texas, is architect. (Recently mentioned.)

Princeton, Ark.—Methodist Church award-ed contract to George W. Hearn of Princerect edifice, replacing structure stroyed by storm.

Princeton, Ark.-Presbyterian Cong awarded contract to George W. Hearn of Princeton to rebuild edifice destroyed by

Shawnee, Okla.-Emanuel Episcopal Church awarded contract to Higgins & Furness of Shawnee to erect edifice costing \$10,000.

Statesville, N. C .- Broad Street Methodist Church will soon begin work of finishing main auditorium of new edifice; completed cost, including site, \$40,000. Address The Pastor, Broad Street Methodist Congrega-

St. Louis, Mo.-Rev. O. J. McDonald will erect one-story church building to cost \$48,000.

Washington, D. C.—Southern Methodist Church is considering erection of cathedral. Address Rev. J. Howard Wells, pastor Mount Vernon Methodist Church, Mount Vernon Pl. and 9th 8t. N. W.

Wharton, Texas. - Baptist Congregation awarded contract for erection of \$8000 edifice awarded contract for refection of \$8000 edinice to Jopling Bros., Trinity, Texas (present ad-dress, Wharton); building, 43x80 feet; ordi-nary construction; electric lighting; plans by L. S. Green, Commercial National Bank Bildg., Houston, Texas. (See "Machinery

Wheeling, W. Va.-Glendale M. E. Church has advertised for bids for erection of edi-fice; brick veneer; seating capacity 350. Ad-dress The Pastor, Giendale M. E. Congrega-

Miss.-Bids for construction winding, Miss.—Blue for construction of brick church will be opened at office of J. C. Purnell, supervising architect, Jackson, Miss., August 2; certified check, \$500. For further particulars address supervising architect.

COURTHOUSES

Aiken, S. C.—Bids will be opened August 6 for heating plant and repairs to courthouse; Jesse Green, chief commissioner. (See "Machinery Wanted.")

Boerne, Texas.-Kendall county, H. Thels. county judge, had plans prepared by Alfred Giles, San Antonio, for \$7000 stone addition to courthouse; bids to be opened in August. (Recently mentioned.)

Scottsboro, Ala.-J. J. Williams, Judge Probate, Jackson county, will receive bids until August 10 for improvement of courtnntil August 10 for improvement of cour hause; plans and specifications on file 1 office of Mr. Williams and of R. H. Hun architect, Chattanooga, Tenn.; cost \$25,000.

Sumterville, Fla.-Sumter County Commissioners contemplate erecting courthouse, and invite architects to prepare plans and specifi-cations and submit same at regular meeting on August 2; building to be of pressed brick, with vault in clerk's office and another ounty judge's office; cost \$20,600 to \$30,000; Nelson, clerk and auditor.

Tifton, Ga.—Tift county is considering erection of courthouse; M. Tucker, Jr., John Goff and I. W. Bowen, Board County Commissioners.

DWELLINGS

Atlanta, Ga .- W. J. Davis will erect num ellings. (See "Miscellaneous En

Baltimore, Md.-Saratoga Improvement Co awarded contract to Rodgers & McCall, 21 E. Saratoga St., Baltimore, for erection of two dwellings on Norfolk avenue; stone founda-tion; slate roof; 25x28 feet; steam heat; combination fixtures; frame; cost \$6500 each; plans by Clarence E. Anderson, Law Bidg. Baltimore.

Baltimore, Md.—Rowland Watts, 2846 N Calvert St., awarded contract to G. Stohr. 1334 N. Stricker St., for erection of dwelling at Powhatan and Weedheim avenues; two and a half stories; frame; 28x30 feet; slate roof; steam heat; interior finished in hard-wood; gas and electric lights; cost \$5000; dans by George R. Morris, Equitable Bldg.

Baltimore, Md.-J. S. Downing, 602 41st St., will erect three dwellings on Franklin terrace; two stories; brick; hot-water heat; electric lights; Carey roofing; bluestone foundations; cost \$8000; two dwellings, 15x50 feet; one with store, 18x50 feet; plans and construction by owner.

Baltimore, Md.-John A. Lamon, 1808 West North Ave., and Joseph Lamon, 1732 North Carey St., will erect two dwellings at Severna Park : two and a half stories : frame

ore, Md.-Mrs. Bertha Meyer, 408-414

West Pratt St., will erect bungalow at Severna Park, to cost \$3500.

Baltimore, Md. - Charles J. Voneiff, 50 ennsylvania Ave., has purchased site 68x29; et and will erect residence at Serevna

tary-treasurer Maryland Realty Co., 6 East Lexington St., purchased site 155x193 feet at Clement and River Sts. and will erect num-ber of brick dwellings.

Baltimore, Md.-Joseph L. White Realty Co., 115 South Broadway, is having plans prepared by Charles Broring, 800 North Wolfe St. Baltimore, for 19 dwellings on Lakewe brick; 15x65 feet wo stories; brick; 15x65 fee galvanized-iron cornices; namental \$28,000.

Baltimore, Md.—Edgar Goodman of the American, Baltimore and South Sts., Is having plans prepared by Louis Levi, American Bildg., Baltimore, for residence at Mont Alto; two and a half stories; ornamental frame construction; concrete foundation; contractors estimating include Harry W. Johnson, 2814 Rayner Ave.; E. G. Turner, 2010 Harlem Ave., both of Baltimore, and Daniel Hardin. Towson, Md.

Baltimore, Md.—New Era Realty & Con-struction Co., 11 East Lexington St., will erect 18 dwellings on Highland avenue, Walrook : three stories : site 367x150 feet.

Baltimore, Md.-Leonard R. Walker, North Stricker St., awarded contract to Ellner Building Co., Baltimore, for erection of dwelling; two and a half stories; frame; 28x32 feet; stone foundation; slate roof; steam heat: combination fixtures:

Birmingham, Ala.—Charles de Bardeleben is having plans prepared by Miller & Mar-tin, Birmingham, for residence in Idlewild

Birmingham, Ala.—E. M. Prince is having lans prepared by Miller & Martin, Birmingham, for residence in Idlewild Park.

Calvert, Texas.-Mrs. Frank Barton will rect \$10,000 residence.

Charlotte, N. C.—Mrs. C. W. Johnson had plans prepared by Hook & Rogers, Charlotte, for two-story residence; brick veneer and stucco; ordinary construction; electric light-ing; hardwood floors; low-pressure steam

Chattanooga, Tenn. — John Dowling, 13 East Terace St., awarded contract to Jas. R Ryan, 317 East 8th St., Chattanooga, to erect brick dwelling at 134 East Terrace street; stories and basement; seven ro; cypress or metal-shingle roof; pine interior finish : cabinet mantels ; or hot-water heat; electric and gas lighting

Cumberland, Md.-Dr. C. L. Owens, 100 Cumperland, Md.—Dr. C. L. Owens, Mo Virginia Ave., will erect dwelling; two sto-rles; pressed brick; stone trimmings; steam heat; 12 rooms; office; ordinary construc-tion; hot-water heat; electric and natural-Virginia Ave tion gas lighting ; cost \$5200.

Fields, La.—Lutcher Moore Lumber Co., nain office, Orange, Texas, will erect 80

Florence, Ala.—Mrs. Wm. L. Hurst awarded contract to W. F. Harget, Florence, for erection of dwelling; two stories; nine rooms; 120x300 feet; cost several thousand dollars.

- E. D. Chadick Galveston, Texas. awarded contract to Dupree & Gracey, Galveston, for erection of dwelling; two and one-half stories; electric heat and lights; ost \$6000.

Houston, Texas.-Thompson Bros. Lu o. planning to erect 250 dwellings. Lumber Manufacturing Plants.")

Kansas City, Mo.-Charles Baird will e

Knoxville, Tenn.-Mrs. Lizzle Lillard will rect residence; estimated cost \$475

Knoxville, Tenn.-I. G. Waters will erechree dwellings; cost \$2500 each. Lacey Spring, Va.-Jacob Cole will erect

Little Rock, Ark.—B. C. Bain will erect esidence to cost \$10,000.

Little Rock, Ark.-Mr. Bartholemew aving plans prepared by J. M. Whiteh

having plans prepared by J. M. Whiteher Little Rock, for \$8000 residence. Little Rock, Ark.—Ed Reichardt is having plans prepared by J. M. Whitehead, Little

Rock, for \$3000 residence Little Rock, Ark.-Durand Whipple ha plans by George R. Mann, Little Rock, for residence; two stories; brick; cost \$10,000.

Little Rock, Ark.—John M. Moore has plans by George R. Mann, Little Rock, for dwellings; two storles; brick; cost \$10,000.

Memphis, Tenn.-W. L. Smith will erect

residence; two stories; brick veneer; tile oof; 10 roms; cost \$15,000; owner builder Memphis, Tenn.-R. T. Ronaldson awarded

contract to R. D. Holladay, Memphis, for erection of residence; two stories; frame; even rooms; cost, exclusive of heating, wiring and plumbing, \$4000.

Memphis, Tenn.-R. T. Cooper awarded con tract to J. W. Williamson, Memphis, for erec tion of residence; two stories; brick veneered; 10 rooms; slate roof; concrete foundations; cost, exclusive of heating, wiring and plumbing, \$12,900.

Mount Pleasant, P. O. Washington, D. C A. W. Mechen, Baltimore, Md., has awarded contract to John H. Nolan, 1413 G street N. W., Washington, D. C., for erection of four dwellings at 14th and Webster streets, Mount Pleasant; two stories and attic; brick foundation; slate roof.

Mt. Washington, Md.-Mt. Washington elopment Co., Forest Park, Baltimore, Md., ls preparing to erect two dwellings.

Nashville, Tenn.—A. S. Warren, Jr., will xpend \$8000 in erection of residence (respently noted) after plans by Thomas S darr, Nashville; size, 48x42 feet; 10 rooms wo baths; brick walls; hot-air heat; elec Marr. tric and gas lighting.

Nashville, Tenn.-John T. Landis has plans by Thompson, Asmus & Norton, Nashville, for erection of dwelling; two stories; 16 rooms; gas and electric lights; will install elephone system; cost \$25,000.

Norfolk, Va.-Bertha Cecil Myers awarded contract to Callis & Thomas, Norfolk, for erection of \$3479 frame dwelling recently mentioned; ordinary construction; electric and gas lighting; plans by W. T. Zepp, 18th and Granby Sts., Norfolk.

Norfolk, Va.-I. S. D. Sauls' residence ently mentioned, will be of brick construction : steam heat : gas and electric lighting plans by R. Edward Mitchell, Norfolk; Mr auls' address, 402 Main St.

Oneonta, Ala. — John Sharp Williams Washington, D. C., will not erect residence at Oneonta. (Recently incorrectly re ported.)

Palestine, Texas.—Geo. W. Burkett award-d contract to Jno. H. Ganht, Palestine, for rection of \$9000 residence

Raleigh, N. C.-Mrs. C. H. Dargan will rect dwelling : cost \$3000

Raleigh, N. C .- R. D. W. Connor will erect

Roland Park, Station L, Baltimore, Md.— Harold Randolph, 28 East Preston St., Baltimore, is having plans prepared by Wyatt & Nolting, Keyser Bidg., Baltimore, for residence at Roland Park; two and one half stories; half concrete and half ornamental times. Old Parallel at the cost \$18,000; con-Old English style; cost \$18,000; con-tors estimating include John Cowan, 100 West Madison St.; A. F. West, 217 South Gilmor St.; Gustav Stohr, 1334 North Stricker St.; Gladfelter & Chambers, 2072 Woodberry Ave.; Willard E. Harn, 2700 Huntingdon Ave., all of Baltimore, and Roland Park Co., Roland Park.

Savannah, Ga.-A. J. Ritch has plans by Wallin & Young, Savannah, for residence; two stories; frame; 48x55 feet; colonial style; rock-faced limestone foundation with weatherboarding above; slate roof; cost \$15,000.

Savannah, Ga.-Mrs. L. Purse ontract to A. S. Bacon & Sons, Savannah, for erction of residence recently mentioned; wo stories; frame; colonial athroom; hot-air heat; cost \$6 cost \$6000; plans by Percy Sugden, Savannah.

Smithsburg, Md.-C. V. Harpe has plans y Woltz & Porter, Hagerstown, Md., for residence.

Sparrows Point, Md.-Maryland Steel Co. will erect two double brick dwellings on street : cost \$10,000.

Spartanburg, S. C.-H. A. Ligon awarded contract to W. L. Bryson, Spartanburg, for erection of 43 two, three, four and seven room cottages for operatives; cost \$16,000.

St. Louis, Mo.-R. E. Chappelow has plans by Stephen & Parsons, St. Louis, for residence in Parkview : two and a half stories :

Wadesboro, N. C.-L. D. Robinson contem lates erection of 8 or 10-room dwelling lans by J. M. McMichael, Charlotte, N. C. tructure to have slate roof; steam heat tructure electric lighting; contractors now estimat-

Washington, D. C .- H. R. Howenstein, 1314 F St. N. W., had plans prepared by L. T. Williams for five two-story brick dwellings recently noted; ordinary construction; hotair heat; gas lighting; cost, \$12,500; construc-

GOVERNMENT AND STATE BUILD. INGS

Charleston, S. C.-Barracks Quarters.—Headquarters U. S. Marine Corps, Quartermaster's Office, Washington, D. C. Proposals will be received until August 16 for construction of marine barracks onstruction of marine barracks and ma-officers' quarters at Navy-yard, Charles-Proposal blanks, plans, specifications and other information may be obtained from manding officer, marine barracks, ind, Charleston, or F. L. Denny, Co yard, Charleston, or F. L. Denny Quartermaster, Washington, D. C.

Corsicana, Texas — Orphanage. se received in office of E. W. Tar - Bids will W. Tarrant, superntendent State Orphan Home at Corsicana until August 2 for purchasing and placin in position two tubular boilers, each 100 horse-power; water softener; painting and striping walls of five brick dormitories; filling in basements of three buildings with earth: renewing floors and ceilings of thre earth; renewing noors and ceilings of three buildings; replacing lavatories, sinks and baths in several buildings; renewing and repairing heating plant; purchasing brick and laying walks; remodeling and adding to hospital; excavating and walling with brick tunnel 800 feet in length; certified check, 10 per cent. of bid; specifications and plans on file in office of superintendent. (See 'Machinery Wanted.")

Fort Screven, Ga.-Buildings.-E. Morgan, Newport News, Va., has contract to creet buildings at Fort Screven at total of \$64,000; structures include bachelors' quarters, bar-racks, mess hall, etc. (Previously mentioned.)

Gainesville, Fla.-Experiment Station, etc. Bids will be received until August 6 at office of F. P. Fleming, Jacksonvile, Fla., for construction of agricultural experiment station and science hall at Gainesville, Fla.; each bid for construction of buildings to be accompanied by certified check for \$5000, and each heating bid with certified check for \$500. Drawings and specifications may be seen at office of Edwards & Walter, architects, 631 Candler Bldg., Atlanta, Ga. Contractors may obtain drawings and specifications architects by depositing certified che \$25; subcontractors to pay architects \$10 for use of drawings; P. K. Yonge, chairman Board of Control, State of Florida.

Laredo, Texas - Postoffice, etc.-Treasury Department, office of supervising architect, James Knox Taylor, Washington, D. C. 1 ro-posals will be received until August 26 for additional approach work at United States postoffice and custom-house at Laredo in accordance with drawing and specification, copies of which may be had at above office or of custodian at Laredo at discretion of architect.

architect.

New Orleans, La.—Postoffice and Court-house.—Bids will be received at office of James Knox Taylor, Supervising Architect, Treasury Department, Washington, D. C., until August 31 for construction, excepting mechanical equipment and interior finish, of U. S. Postoffice and Courthouse at New Orleans, in accordance with plans and specifi cations, copies of which may be had at above office, or of Architects Hale & Rogers, 11 E. 24th St., New York, at discretion of Super-vising Architect; applications to be accompanied by certified check for \$250.

Paris, Ky. - Postoffice, - Treasury Depart ent. Office of Supervising Architect, James ox Taylor, Washington, D. C. Sealed pro-als will be received at this office until August 30 for construction (including plum ling, gaspiping, heating apparatus, electric conduits and wiring) of United States post-office at Paris, in accordance with drawings and specifications, copies of which may be had from custodian of site at Paris, or at this office, at discretion of architect.

Washington, D. C. — Hospital. — Frank Pierce, acting Secretary, Department of Juterior, Washington, D. C., will receive bids until August 17 for remodeling boiler plant at Government Hospital for Insane at ington in accordance with plans and specifications, copies of which, with proposa fications, copies of which, with prop form, may be had on application at Dej

Washington, D. C .- Sealed proposals. washington, D. C.—Seared proposals, ed-dorsed "Proposals for Improvements to Building No. 41," will be received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until August 21 for im-provements to building No. 41 at navy-yard. Plans and specifications can be obtained on application to bureau or to commandant of yard named. R. C. Hollyday, chief of bureau. Date extended from July 31.

HOTELS

Baltimore, Md.—Parker, Thomas & Rice, Union Trust Bidg., Baltimore, are complet-ing plans and specifications for proposed ad-

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dition to Hotel Belvedere, contract for erecting which has been awarded Edward Brady & Son, 1103-1113 Cathedral St., Baltimore structure will be fireproof; two stories; 25x 185 feet; front of pressed brick with marble trimmings; cost \$30,000.

Beaufort, N. C .- Charles L. Abernathy will

Birmingham, Ala.-Lbuis V. Clark is inte ested in erection of proposed hotel at Fourth venue and 20th street.

Bluefield, W. Va.-Samuel Metz will erect Blueneud, w. va.—Samuel according to seven-story hotel; contract for heating and plumbing awarded at \$15,000 to Robert W. Kyle & Co., Wheeling, W. Va.

Dallas, Texas.—Otto Herold, manager, will expend \$50,000 in remodeling Oriental Hotel; new tile floors, electric wires to be placed in onduits, marble columns in center of main om, etc.

El Dorado, Ark.-El Dorado Hotel Co. EI DOTAGO, ATK.—EI DOTAGO HOTEL CO. In-corporated with \$50,000 capital stock by R. N. Garrett, H. C. McKinney, R. H. Terrell and others; has had plans prepared by Gibb & Sanders, Little Rock, Ark., and will soon award contract for erection of hotel; three s; with basement; 60 rooms; 10 steam heat; electric lighting; (Recently mentioned.)

Excelsior Springs, Mo.—Elm Tree Inn Coincorporated with \$45,000 capital stock b Willis Wood, Charles Loomis and Eva Ward.

Hot Springs, Ark .- Joseph S. Horner (office over Sorrells' drug store) invites bids for erection of addition to Louisiana Hotel, 209 Park Ave.; plans and specifications on file at his office.

m, Okla.-Mathewson & Hamilt reported to erect three-story hotel.

Pascagoula, Miss.—W. W. Newcomb of Grunewald Hotel and Guy Stone of Stone Bros., Hennen Bldg., both of New Orleans, La., are interested in erection of hotel at Pascagoula Beach costing \$40,000.

Temple, Texas.—W. H. Stegall awarded contract to E. Nelson, Waco, Texas, at \$25,-50 for erection of four-story brick annex to Stegall Hotel. (Recently mentioned.)

MISCELLANEOUS STRUCTURES

Anacostia, D. C.-Home.-Episcopal Home for Children, Washington, D. C., is having plans prepared by York & Sawyer, 156 Fifth Ave., New York, for proposed assembly hall and administration building.

Atlanta, Ga.—Almshouse, — Fulton county has plans by Morgan & Dillon, Atlanta, for proposed almshouse. It is planned to erect three-story structure to cost \$75,000.

Baltimore, Md.-Leader Department Store Howard and Lexington Sts., Cahn, Coblens & Co., proprietors, awarded contract to R. B. Mason, 324 West Biddle St., Baltimore, for crection of additional story; slag roof; cost \$10,000; plans by A. Lowther Forrest, 411 St. Paul St., Baltin

Baltimore, Md.-Garage.-J. H. Dashiell, 2892 St. Paul St., awarded contract to A. J. Cortes, Baltimore, for erection of garage in rear of dwelling; one story; concrete foun-dation; red pressed brick; slag roof.

Birmingham, Ala. - Lodge. - Magic City Camp No. 4. Woodmen of World, will erec ory lodge building; cost \$20,000.

Charlotte, N. C.-Belk Bros. awarded con tract to J. A. Jones, Charlotte, for erection tract to J. A. Jones, Charlotte, for erection of store addition mentioned in June; si-stories; 41x178 feet; 75,000 square feet floo space; brick and steel; ordinary construc-tion; steam heat; electric lights; freight and passenger elevators; cost \$40,000; plans by Wheeler, Galligher & Stern, Charlotte.

wheeler, Galligner & Stern, Charlotte,
Columbia, La.-Masonic Hall.-Masonic Order, R. R. Redditt, secretary, will expend
\$6000 in erection of building recently mentioned; two-story structure; 34x100 feet;
brick; concrete trimmings; galvanized-iron
roof; plate-glass front; store on first floor;
hall above; plans by Smith & Barthel, Mon-

Covington, Va. - Business.-C. Α. arded contract to John Alexander, Coving-, for erection of business building; two stories; red brick; cost \$5000.

Dallas, Texas - Business. - Mrs. Ann Prather will erect business block.

Dallas, Texas-Store.-Frank O. Witchell

will erect brick store building. Dallas, Texas-Store.-L. O. Daniel Milli

hery Co. will erect building; four stories and basement; steel, stone and brick; passenger and freight elevators; automatic fire sprink-ler system; steam heat; private branch telephone exchange; cost \$40,000.

Decatur, Ala.—Business.—W. W. warded contract to R. G. Ross, Decatur, for erection of business block; two stories; brick; frontage 80 feet.

De Leon. Texas-Business.-C. R. Ayres

will erect brick business building: 75x100

Ducktown, Tenn.—Y. M. C. A.—Young Men's Christian Association, U. T. Grizzard, assistant State secretary, Nashville, Tenn., is planning erection of association building.

Elizabeth City, N. C.—Store, etc.—Kraner Bros. & Co. awarded contract to J. W Martin, Elizabeth City, for erection of pro-posed store and office building; plans by Lee & Diehl, Norfolk, Va.; brick and stone structure; 88x128 feet; metal roof; hot-water eat: electric lighting: freight hand-power levator : cost \$30,000.

Eldorado, Ark. - Business. - R. S. Daugh rty will erect business building; one story

Eldorado, Ark.-Store.-Mrs. Anna G. Wilwill erect store building; two stories

Fort Worth, Texas-Pens.-The Fort Worth Stockyards Co. will erect 28 additional pens to accommodate 2500 hogs, or 28 carloads, giving total capacity of 8000 daily.

Fountain Inn, S. C.—Store.—J. W. Adams and L. P. Armstrong awarded contract for proposed store building to W. M. Jordan, foreenville, S. C.; two-story structure; 51x90 feet; press-brick front; gravel roof; metal cellings; freight elevator.

Fountain Inn, S. C.—Store.—R. B. Holland awarded contract to W. M. Jordan, Green-ville, S. C., for erection of proposed one-story store building; 66x50 feet; press-brick front; metal ceilings; gravel roof.

Galveston, Texas - Bathhouse, - Breaker ompany, Jack Pearce, president, will erect athhouse to replace damaged structure; 900 rooms; cost \$50,000.

Galveston, Texas-Bathhouse. arranging for rebuilding on larger scal-Murdock's bathhouse, damaged by storm

Houston, Texas-Business.-Christian Hahn El Campo, Texas, awarded contract to W. Tharp, Sr., Houston, Texas, for erection of

Jackson, Ga.—Business.—Homer & Blums armichael will erect business building Carmichael will erect business building brick; plate-glass front.

Jackson, Ga.—Business.—R. W. Mays will creet business building; two stories; brick.

Jackson, Gå.—Business.—Ham & Carter company will erect business building.

Knoxville, Tenn .-- Art and Lyceum Buildng.-Lyceum and Art Museum planning erec tion of annex to art and lyceum building; plans by Geo. F. Barber, Knoxville.

Knoxville, Tenn. – Business. – Knoxville Leasing Co., C. B. Atkin, president, has eased site 140x140 feet and will erect two-tory business block, with foundation to support additional stories; cost \$100,000.

Little Rock, Ark.-Home.-Mcthodist Con regation has plans by J. M. Whitehead, Lit tle Rock, for proposed orphanage.

Louisville, Ky.-Business.-Arcade Co. incorporated with \$100,000 capital stock by Sam P. Jones, R. H. Edelen, James Gam-ble and M. W. Burd, secretary; plans to erect four-story business building.

Lufkin, Texas — Sanitarium. — Ang ounty Medical Association is planning tion of sanitarium; two stories and base ment; brick; cost \$20,000.

Macon, Ga.—Stockade, etc.—Bibb county awarded contract at \$9407 to Wilder & Paul-lin, Macon, for erection of stockade and convict headquarters recently mentioned one story; brick; 45x170 feet; plans by C. R. Ellis, Mac

Malone, Texas-Business.-E. L. Routh will rect business building; two stories; brick

Meridian, Miss.-Business.-W. B. Cararay will erect business building; three sto ; pressed brick.

New Hope, Ala.—Business.—J. E. Butler Company awarded contract to R. G. Ross, Decatur, Ala., for erection of business build-ing; two stories; brick.

ing; two stories; brick.

Ocala, Fla.—Masonic Hall, etc.—MarionDunn Lodge No. 19, F. and A. M., W. V.
Wheeler, secretary, will erect masonic hall
and opera-house recently mentioned; two
stories; lower story 65x115 feet; ordinary
construction; electric lighting; cost \$17,000;
tabus by Goo Mackay Ocala; hids to be plans by Geo. Mackay, Ocala; bids to be ened August 20.

Pensacola, Fla. — Fair Buildings. — Tri-County Fair Association will expend \$10,000 for enclosing and improving site and erection of buildings for fair at Magnolia Bluff.

outh, Va.-Lodge.-Independent Or der of Odd Fellows will expend \$12,000 for re modeling Odd Fellows' Hall, including erec tion of additional story.

Quanah, Texas-Sanatorium.-Dr. Ball and associates reported to erect 20-re-torium costing \$10,000.

Raleigh, N. C.-Business.-Henry T. Hicks

will erect business building; three stories rick : cost \$9000.

Sanford, N. C .- Store. etc.-C. H. will erect building recently mentioned: first floor for shoe store; barber shop in base-ment; second-floor for offices; Masonic hall on third floor; front of Washington pressed brick; hot-water heat; architect, J. M. Ken-nedy, Raleigh, N. C., in charge of construc-

Sanford, N. C.—Drug Store, etc.—Dr. I. H. autterloh and Rev. R. W. Bally awarded ontract to John W. Brown, Sanford, for Santord, N. C.—Prug Lutterloh and Rev. R. W. Bally awai contract to John W. Brown, Sanford, erection of \$10,000 building; semi-firepr 48x100 feet; three stories; to contain drug tore, bank, barber shop, offices, etc.; electric lighting; plans by J. M. Kennedy, Raelgh, N. C. (See "Machinery Wanted.")
Williamston, S. C.—Business.—T. M. Mahon

Ill erect business building

Victoria, Texas-Business.-M. Weber will ect business building.

Victoria, Texas-Business.-B. H. Matthew vill erect business building.

Victoria, Texas - Business.-C. R. Alder will erect business building.

Washington, D. C.-Home,-Episcopal Hom for Children will erect \$35,000 addition

MUNICIPAL BUILDINGS

Baltimore, Md.—Hospital, etc.—Edward A. reston, building inspector, distributed plans repared by Parker, Thomas & Rice, Union rust Bidg., Baltimore, for buildings to be erected at Bayview Asylum; structures in-clude hospital with accommodations for 190 patients, dining hall and power-house; bure to be submitted on August? to Board Awards; following contractors are estimat-ing: Charles L. Stockhausen, 4 Marine Bank Bidg.; American Contracting Co., American Lidg., both of Baltimore; Daniel Harding, Towson, Md. (Previously mentioned.)

Baltimore, Md.—Ward Buildings.—J. Barry Mahool, president Board of Awards, City Hall, will open bids August 4 for erection o ward building "A" at Bayview Hospital Hall, will bids must be left with J. Sewell Thomas, City Register, at his office, City Hall; bids must be accompanied by certified check of bidder on some clearing-house bank for \$500, payable to Mayor and City Council of Baltin successful bidder required to give bond successful bidder required to give bond and comply with City Charter respecting con-tracts; drawings and specifications on file at office of Edward D. Preston, Inspector of Buildings, City Hall.

Baltimore, Md.—Library.—Joseph Evans Sperry, Calvert Bidg., Baltimore, has com-pleted plans for Enoch Pratt Free Library (Branch No. 13), to be erected on site bounded by Kenwood avenue, Fayette street, Philadelphia road and Patuxent street structure will be one story; 84x36 feet; brick and marble; lecture hall in basement with seating capacity of 200; cost \$22,000; followseating capacity of 200; cost \$22,000; following contractors estimating: Henry Smith & Sons Company, 116-129 South Regester St.; John Waters, 23 East Center St.; Morrow Bros., 218 West Saratoga St.; B. F. Bennett, 123 South Howard St.; Edward Brady & Son, 1199-1113 Cathedral St.; J. Henry Miller, 106 Dover St.; John Cowan, 106 West Madison St. (Recently mentioned.)

Bryan, Texas-Fire Station.-City awarded to C. E. Jenkins, Galveston, Texas, to erect two-story fire station.

Charleston, S. C.—Engine-house.—Board of Fire Masters, L. Behrens, clerk, will open bids August 10 for erection and completion of two story brick engine-house; plans and specifications by Henry F. Walker, architect, Charleston; certified check, \$100; plans and specifications can be seen as office cheft of medifications can be seen at office chief of Department, 116 Meeting St.,

Hillsboro, Texas—City Hall and Fire Sta-tion.—C. D. Hill & Co., Dallas, Texas, are names of architects who prepared plans for city hall and fire station recently mentioned bids will be received until August 10 by Ed-ward Woodall, Mayor, or architects; plans on file in office of Mayor or architect; certified check, \$500.

Macon, Ga.-Hospital.-Holly Bros. of Macon have contract to remodel municipal hos nital.

Monroe, La.-City Hall.-Southern Building Co., Louisville, Ky., has contract at \$59,750 for erection of city hall and prison combined and engine-house at Monroe; A. A. Forsythe, Mayor. (Recently mentioned.)

Wagoner, Okla.-City Hall.-City will vote in August on issuance of \$200,000 bonds for a water-works and electric-light hall. Address The Mayor

RAILWAY STATIONS

Bartlesville, Okla. — Atchison, Topeka & Santa Fe Railway Co., C. A. Morse, chief

engineer, Topeka, Kans., will expend about \$25,000 on proposed pas station gether with yard changes and paving; contruction co

Houston, Texas,-Westmoreland Railroad Co. (incorporated by W. G. Sears of Houston and others) will erect union depot.

Lake City, Fla.—Scaboard Air Line Railway, W. L. Seddon, chief engineer, Portsmouth, Va., will crect brick freight depot.

Mt. Sterling, Ky.-Chesapeake & Ohio Rail-Mt. Sterling, Ky.—Chesapeake & Ohio Railway, F. I. Cabell, engineer maintenance of way, Richmond, Va., awarded contract to A. M. Walkup, American National Bank Bidg., Richmond, for erection of passenger depot previously mentioned; main building 36x72 feet, with three waiting-rooms, office, three toilets and cellar; express and baggage rooms 32x30 feet; 360-foot umbrella wick and stone; ordinary construcshed; brick and stone; ordinary construc-tion; steam heat; electric lighting; scales; estimated cost \$18,000.

Quanah, Texas.-Quanah, Acme & Pacific Railway, F. M. Sands, Acme, Texas, super-intendent, will soon begin erection of two depots at Quanah. (See "Railway Shops, Terminals, Roundhouses, etc.")

Richmond, Va.—Chesapeake & Ohlo Rail-vay, F. I. Cabell, engineer maintenance of way, Richmond, has prepared plans and will soon award contract for remodeling of freight yards and erection of brick and con-crete freight station and warehouse to cost about \$50,000; freight depository to be two stories on Broad street and contain offices front; from Broad street and contain omces in front; from Broad to Marshall street build-ing will be 265 feet long, and from Marshall to Clay street of equal length, but one story high; this part will be used as warehouse.

Shepherdstown, W. Va.-Norfolk & West-ern Railway, C. S. Churchill, chief engineer, Roanoke, Va., awarded contract to John P.
Pettyjohn & Co., Lynchburg, Va., to erect
passenger station; pressed brick; concrete
foundation; steam heat; electric lighting; cost \$16,000. (Recently mentioned.)

SCHOOLS

Archer City, Texas. — Trustees Archer County School District No. I awarded con-tract to T. P. Hickman, Wichita Falls, Texas, for erction of proposed \$20,000 school.

Blooming Grove, Texas.—City will select architect August 2 to prepare plans for \$18,-000 school building recently noted; two-stery brick structure; eight rooms and auditorium; gteam heat; I. N. Wilkinson, Mayor.

Brookhaven, Miss.—City awarded contract to West, Rutter & Welch, Brookhaven, for erection of school for negroes; plans by Eu-gene McCormick; two-story frame structure; 72x87 feet; lighting not decided; cost \$5500. (Contractor's name incorrect in recent no

Calhoun, La.—City has voted special tax o erect agricultural high school. Address

The Mayor.
Christoval, Texas.—Christoval Independent School District will erect two-story stone and brick school building; cost \$7000; Jas. Ford, secretary board of trustees.

Clairemout, Texas.—School Board, B. I., Glenn, secretary, will open bids about 'Au-gust 1 (posiponed date) for erection of school building recently mentioned; two-story, 40x50-foot concrete structure; cost \$7500; plans by Harry R. Wagoner, Clairemont.

Clinton, Miss.—Mississippi College contemplates erection of science building to cost \$50,000; plans by R. H. Hunt, James Bidg., Chattanooga, Tenn.; George E. Kessler, St. Louis, Mo., landscape architect.

Cloverport, Ky.-School Board, T. L. Lightfoot, president, will erect proposed \$3000 addi-tion to school building by days' labor; two stories; 36x48 feet; ordinary construction; brick; steam heat. (See "Machinery Wanted.")

Columbia, S. C.-University of South Caro lina awarded contract at \$45,427 to George W. Waring, Columbia, for erection of labo-ratory recently mentioned; 150x65 feet; plans by Wilson, Sompayrac & Urquhart, 1302 Main Columbia.

Davidson, N. C. - Davidson College had plans prepared by Hook & Rogers, Charlotte, N. C., for \$20,000 library building; brick and Bedford stone; 55x60 feet; ordinary fireproof onstruction: stackroom and vault: steam heat; electric lighting; date of opening bids not decided.

Denton, Texas,-Board of trustees of the Texas Normal College, Denton, will bids until August 24 for plans and specifications for college building; cost, including architect's commission, not exceed-ing \$35,000; J. T. Bottorff, secretary; Emory C. Smith, Alvin C. Owsley, J. T. Bottorff, trustees.

Denton, Texas.-Standard Business College contemplates erection of \$25,000 sch

Ju

Evergreen, La.-St. John the Baptist parish will open bids August 4 for erection schools costing about \$4000 each at Ever green, Llons and Mt. Airy; frame construc-tion; two stories; slate roofs; brick foundations; lath and plaster; probably acetylene gas lighting; J. Chas. Valadle, architect, \$10 Hennen Bidg., New Orleans, La.; will received bids on any part of work; general bids to be addressed to A. C. Bernard, Jr., superintendent School Board, Edgard, La. (Recently mentioned.)

Fullerton, Ky.-City has voted \$3500 of nds to erect school. Address The Mayor Garza, Texas.-City has voted \$4000 of bonds to erect school. Address The Mayor

Green Spring Depot, Va. — Kinsolver & Huddle, Bristol, Va.-Tenn., have contract, at \$3200, for rebuilding burned academy,

Guilford College, N. C.—Guilford College awarded contract to John T. Hunt & Co., Greensboro, N. C., for erection of college building recently mentioned; brick and stone structure; 60x80 feet; ordinary con-struction; steam heat; electric lighting; cost \$25,000; plans by Hook & Rogers, Charlotte, N. C.

Hardin, Ky.—City will erect \$5000 high school. Address The Mayor.

Hartshorne, Okla.—Bids will be received until August 10 by A. M. Gooch, clerk Board of Education, for constructing 10-room brick ool; certified check for \$500; also at a for heating; certified check for and for plumbing and wiring, certified chee for \$200; all checks to be made payable to said clerk; plans and specifications on file at office of clerk and of Smith & Parr, ar-chitects, McAlester, Okla.; J. P. Grady, pres-ident. (See "Machinery Wanted.")

Iota, La.-School building, contract recent ly noted awarded to E. Miller, Eunice, La. will be brick 54x114-foot structure; semi-fire proof; hot-air heat; contract price, \$13,775 dans by R. A. Nockton, Crowley, La. 'Machinery Wanted.")

Jacksonville, Texas,-City has voted \$25,000 of bonds to erect school; brick, stone or con-crete. Address The Mayor.

Kentwood, La.—City has plans by R. H. Hunt, Chattanooga, Tenn., for erection of proposed high school; three stories and basenent : cost \$17,000 : Leo Decoux, Mayor.

Leakesville, Miss.—City has voted \$7000 of bonds to erect school. Address The Mayor.

Lions, La.-St. John the Baptist parish had plans prepared by J. Chas. Valadle, 810 Hennen Bldg., New Orleans, La., for two-story frame school building recently men-tioned; cost \$4000; will open bids August 4. (See "Evergreen, La.")

Logan, W. Va.-City awarded contract at \$7480 to Charles Bennett, Logan, for erection of proposed addition to school.

Lubbock, Texas,-School trustees will pend \$25,000 in erection of school building recently mentioned; plans by Taylor & Mount, Lubbock; 15-room building; Coffeyville press brick: 80x84 feet; mill constru tion; steam heat; bids opened August 2. (See "Machinery Wanted.")

Martinsburg, W. Va.-City awarded con-tract, at \$10,000, to S. A. Westenhaver, Mar-tinsburg, for erection of addition to high school recently mentioned; one story; five

ery. Ala -- Woman's College of Ala Montgo bama, W. E. Martin, president, accepted plans by Warren & Smith, Boston, Mass., for pro-posed college building.

Mt. Alry, La.—St. John the Baptist parish will open bids August 4 for erection of two-story frame school building recently men-tioned; plans by J. Chas. Valadie, 810 Hen-nen Bidg., New Orleans, La. (See "Ever-

Murphy, N. C.—Bids will be received until August 20 for erection of brick school; 65x 104; main building two stories, with two end rooms one story, 20 feet long; ordinary con-struction: steam heat; electric lights; certified check for \$500; plans and specificatio on file at office of Cunningham Bros., are tects, Greenville, S. C.; further particulars from A. A. Fain, Murphy.

Nashville, Tenn.-Nash county is planning to erect two dormitories at Mt. Pleasant and Red Oak. Address County Commission-

Quanah, Texas.-City voted \$10,000 of bo for erection of brick school building on North side. Address The Mayor.

Plaquemine, La.—Iberville paris tax for erection of school. Address Police

Raleigh, N. C .- Peace Institute awarded contract to John W. Coffey, Raleigh, erection of 10-room dormitory; cost \$\mathbb{S}\$ plans by Barrett & Thompson, Raleigh.

Rayne, La.-City has voted \$26,000 of bonds erect school. Address The Mayor.

Roanoke, Va.-High-school building, tract recently noted awarded to J. F. Barbour & Co., Roanoke, will be three-story-basement structure; 55x75 feet; steam rect and indirect) heat; electric and lighting; ordinary construction; cost \$15,000; plans by H. H. Huggins, Roanoke. (See "Ma chinery Wanted.)

Roby's (not a postoffice). Md.-Bids will lans and specifications on file at office of corge F. Stansbury, architect, 9-10 Citizens' National Bank Bidg., Cumberland, Md.; A. C. Willison, secretary Board of School Commissioners, Cumberland.

Rockwood, Tenn.—City will vote August 1 on bonds for erection of school building; . N. Baker, chairman Board of Education. (Recently mentioned.)

Scott County, Ky .- Scott County Board of Education will receive bids until August 2 Muddy Ford and Stonewall, Ky.; plans and specifications on file at office of County Superintendent; J. R. Lancaster, chairman, Georgetown, Kv.

Seagoville, Texas.—Bids will be received until August 1 for erection of school; two stories; brick; certified check for \$200; planand specifications on file at office of Boar and specifications on file at office of Board of Education, Seagoville, and of C. A. Gill & Son, architects, Dallas, Texas.

St. Louis, Mo.-Board of Education awarded contract at \$210,000 to E. O. Gerhard, St. Louis, for erection of proposed Franklin School; 201x171 feet; plans by William B.

Van Alstyne, Texas.—City will vote August 7 on \$12,500 bond issue to erect school, for which plans are being prepared by John Culloch, Sherman, Texas. (Recently men-Tulloch tioned.)

Waco, Texas.-City will soon vote on \$140. 000 bond Issue to erect high school. Addre

Walterboro, S. C .- City has voted issuan \$20,000 bonds for schools. Address The

Whitehaven, Tenn.-Shelby co ontract to M. J. Lutz & Bro. for erection of 2000 school buildings at Whitehaven and \$6000 school tha, recently mentioned (under Shelby unity); two-story brick buildings; ordi-ry construction; F. E. Miller, chairman Board of Education, Memphis, Tenn.

Whitesburg, Ky.-Letcher County Board of Education will erect \$12,000 college building; ontract to be let at once : James S. Pendle county superintendent.

Wilmer, Texas.-Dallas county has voted \$6000 of bonds to erect school at Wilmer and \$1000 to erect school at Lagow. Address County Commissioners, Dallas, Texas.

THEATERS

Anniston, Ala.-A. R. Noble, care New Noble Theater Bldg., awarded contract to Roney & Atkinson, Richmond, Va., for erec Roney & Atkinson, Richmond, Va., for erec-tion of \$40,000 structure to replace building recently reported burned; 1300 seating ca-pacity; theater on ground floor; offices above; 38x64-foot stage; Alabama marble in obby; fireproof; steam heat; electric light-; plans by Okel & Cooper, Montg

Baltimore, Md.—Paul Emmart, 210 West Tayette St., Baltimore, has completed plans for moving-picture and vaudeville theater at Baltimore and Calvert streets for The Gar my; structure to be of concrete and steel; seating capacity, 1800; equipped with system of forced ventilation with both varm and cold air : company is repre by Parr & Parr, 219 East German St., Balti-(Recently mentioned.)

Johnson City, Tenn.—J. A. Denton pur-hased site 60x160 feet, on which to erect pera-house; entrance to be 20 feet wide and 60 feet long; storeroom on each side; audi-torium 55x100 feet, with seating capacity of cost \$35,000

Louisville, Ky.—Contract for erection of superstructure of Walnut Street Theater will be iet about August 15; fireproof building; cost \$80,000; foundation in place; plans and supervision by Kenneth McDonald and W. J. Dodd, 1500 Lincoln Savings Bank Bldg., Louisville. (Previously mentioned.)

Ocala, Fia.—Marion Dunn Lodge, W. V. Wheeler, secretary, will erect Masonic hall and opera-house after plans by George Mackay, Ocala; cost \$17,000; blds to be opened (See "Miscellaneous Struc-

WAREHOUSES

Baltimore, Md.-Louis S. Goldbloom, 613-615 will erect addition to

store building; brick; 22x76 feet; mill con struction : cor rete foundation : will be used as warehouse and showrooms; plans by lis & Callis; contract awarded B. W. & Minor, 224 West Pratt St., Baltimore.

Bay City, Texas.-Union Warehouse & Ele-ator Co. awarded contract for addition to rice warehouse costing \$6000.

Harrisonburg, Va.-John E. Sullivan will rect warehouse: 100x26 feet: three or four stories

Harrisonburg, Va.-Valley Produce Co. has egun erection of proposed warehous lories; brick; 80x42 feet; cost \$8000.

Macon, Ga.—Consolidated Warehouse Co. incorporated with \$25,000 capital stock by W. H. O'Pry, B. F. Smith and T. R. Hendricks.

Macon, Ga.-Alamo Lumber & Shingle Co. will erect storage warehouse.

Mebane, N. C.-Mebane Tobacco Warehouse Co. incorporated by B. F. Warner and others. Monticello, Miss.—Monticello Compress & Warehouse Co., John H. Arrington, president, will erect 200x300-foot building. (See 'Cotton Compresses and Gins.')

New Madrid, Mo.-Farmers' Ware ncorporated with \$2000 capital stock by Davis B. Biley, William Graham, William

Norfolk, Va.-Jones & Co. purchased Notgham & Wrenn wharf property in Atlan-City ward; frontage 331 feet on Elizabeth River: depth 650 feet to Front street extends along this street 425 feet; plans are prepared by Neff & Thompson of Norfolk for warehouses; two stories; fireproof; relu forced-concrete construction: cost \$50,000.

Selma, Ala.-Birmingham & Gulf Railway & Navigation Co., through R. L. Ellis, man ager Selma Street & Suburban Railway Co. contracted for \$7000 worth of machinery, in cluding elevators, cranes, etc., to be used in onnection with new wharf and warehous (Previously mentioned.)

Texas City, Texas.—The Texas City Coany, A. B. Wolvin, president, Dulu pany, A. I pany, A. B. Wolvin, president, Duluth Minn., has awarded further contracts or construction and equipment of warehouses. in . connection with improvements pre etc., in.connection with improvements pre-viously fully described; to Harnischfeger Company, Milwaukee, Wis., for installation of 12 traveling cranes in the five ware-houses; Westinghouse Company, Pittsburg, Pa., for 1000-kilowatt electric-power plant, to furnish power for electric motor switch engines; tile roofing and wireglass con-tract to Federal Cement Tile Co., Chicago, Ill., at \$25,000 for tile roofing; blds are being Ill., at \$25,000 for tile roofing; bids are being asked on water-works plant, for water sup-ply and fire protection; as previously stated, contract for steel work let to American contract for steel work Bridge Co., Pittsburg, Pa.

Winston-Salem, N. C.-P. H. Hanes Knit-ting Co. awarded contract to Fogle Bros., Winston, for erection of warel tect, Wiliard C. Northrop of Winston. (Late

RAILROAD CONSTRUCTION

RATLWAYS

Anniston, Ala.—Capt. R. F. Kolb is organ-izing the Shinbone Valley Iron & Timber Co. with \$600,000 capital to develop timber and mineral lands in Shinbone Valley, and will build a railroad connecting with the South-Railway at Pyriton and extending Abel, 16 miles, and later to De Armanville Others interested are O. M. Alexander of Anniston, Ala.; W. B. Davidson of Montgomery, Ala.; P. M. Clark and C. W. Huffman of Lebanon, Tenn., and others of Boston. J. D. Hunter is engineer.

Argenta, Ark.-The St. Louis, Iron Mo tain & Southern Railroad (Missouri Pacific system) is reported to have let contract to J. J. Ball for second track between Argentz and Bald Knob, 15 miles, of which five miles are already completed by the company.

Athens, W. Va.—The Mercer Electric Rail-way Co., R. G. Meadon, president, will, it is announced, receive bids between August 5 and August 10 for grading six or seven of line from Athens to Princeton, W.

Bartlesvile, Okla.—An official of the Atchison, Topeka & Santa Fe Railway says that the company is making changes in the Bartlesville yard and is also erecting a new nger station.

Batesville, Ark .- A meeting has been held to promote plans for a railroad from Batesville to points in the eastern part of the State. Mayor D. H. Coleman, A. A. Webber, M. C. Weaver and R. W. Earnheart are ong those interested.

Bellamy, Ala. - The Sumter & Choctaw Railway has just let contract for a two-mile extension southward to the Lewis Ferry road. Boonville, Mo.-The Missouri Pacific Rail- build an extension. The company has not

way, it is reported, will rebuild the Boon ville, St. Louis & Southern Railroad between Boonville and Versailles, Mo., 44 miles. E. F. Mitchell is engineer of construction, St. Louis, Mo.

Brady, Texas.-W. B. Drake, lent and superintendent of the superintendent of the Frisco sys. tem, Fort Worth, Texas, is quoted as sayli that a line will be built from Brady towa ntonio and survey will begin immedi-M. C. Byers is chief engineer at St. Louis, Mo.

Causey, N. C. - Construction is progressing upon the Bonlee & Western Rail-road, which has several miles cleared and a mile or so graded. I. H. Dunlap and J. Dunlap of Causey are interested.

Charleston, W. Va.-James M. Payne of narleston is reported as saying that parleston & Northeastern Railroad will be built as soon as rights of way can be s cured. Line will run from Clendennin Walton, W. Va., about 20 miles.

Clarksville, Tenn.—A movement is re-corted under way to build an interurban allway connecting Clarksville with Hopkins-Among those reported interested ville, Ky. Among those reported interested are I. H. Jackson of Indianapolis, Ind., rep resenting the Burns Construction Co. of Chicago; F. G. Hoge, secretary and treas-urer of the Ideal Construction Co., Hopkinsville, Ky.; A. H. Eckels, James West, Doug las Bell, Charles Mecham and others Hopkinsville. W. A. Chambers & Co Hopkinsville, W. A. Chambers & Co Clarksville are also reported interested.

Clinton, Miss.-D. N. McLean, president of the Bank of Clinton, writes confirming the report that it is contemplated to build a railway between Clinton and Jackson, M about 10 miles. About three miles will b

Crossett, Ark.-The Crossett Railroa has been chartered with \$25,000 capital and may build an extension. It now has 10 miles of line from Crossett, on the St. Louis, Iron untain & Southern Railroad northward 10 es. The incorporators are E. W. Gates. A. eschman, J. C. Norcott, C. W. Gates and E. S. Crossett.

DeQueen, Ark .- Work is being pushed, ac cording to a dispatch, on the extension of the DeQueen & Eastern Railroad between DeQueen and Vallant, Okla. Survey will soon be finished; six miles of track have been laid and 15 miles graded at the Valiant end.

DeQueen, Ark .- The Kansas City Southern Railroad is reported to have completed sur vey for a cut-off from DeQueen to Springs, and construction will soon begin A. F. Rust is engineer at Kansas City, Mo.

Deport, Texas .- Graders are reported at work between Blossom and Deport for a ailroad promoted by C. T. Moore of Clarks-ille. The line is referred to as the Okla-ioma, Red River & Texas Railroad.

Eubanks, Okla.-The King Lumber Co. bas ompleted surveys for about 15 miles of road from Eubanks to Johns Valley, Okla. D. W. Spor ner of Joplin, Mo., is eng

Favette, W. Va.-The Favette Public Service Corporation, according to official infor-mation, will build a line about five miles long from Stuart to Favetteville, W. Va. Survey is not complete and date for beginning construction is not set. J. P. Davis is president general manager at Glen Jean, W. V. R. J. Stegall and others are also interested.

Franklin, La.—The Franklin & Abbeville dailroad is reported building from Davids witch to Royville, and will continue the work to Milton, on Bayou Vermillion. Kemper is chief engineer, at Franklin, La.

Fredericksburg, Va.—An officer of the Po-omac, Fredericksburg & Piedmont Railroad says that the \$750,000 bond Issue for improve nts and equipment is for refunding and

Fredericksburg, Va.-E. H. Randall of Stafford, Va., is reported surveying for a rail-road from Coal Landing to the Austin Run mines, three miles.

Gallatin, Tenn.-C. H. Fidler of Gallatin is reported promoting a plan for a railroad, the Gallatin & Suburban Railway, from Gallatin to Cumberland, Tenn

Galveston, Texas.-The Gulf & Interstate Rallway (Santa Fe system) is reported to have lost several miles of track by the flood, and the company's other lines also sustained damages. C. F. W. Felt is chief engineer at Galveston, Texas

Glen Jean, W. Va.-The McKell Coal & Coke Co. of Glen Jean is reported to have le contract to W. O. Lipscomb of Roanoke, Va to build three miles of railroad for coal de velopment.

Grayson, Ky .- It is officially denied the Eastern Kentucky Railway Co.

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sent out engineers and it has no expectation of doing any construction. This relates to a recent press report.

Greenville, Tenn.-Leroy Park & Co. write that a company has not yet been organized for the proposed railroad from Kingsport, Tenn., via Greenville, in Green county, to the French Broad River, 60 miles. Only preliminary surveys have been made showing light work, good grade, only one tunnel and two river bridges.

Hamburg, Ark.—The Arkansas, Louislana & Gulf Railway, says an official, is considering a proposition to build from Hamburg to DeValls Bluff, Ark.

Hamilton, Texas. - W. A. Bradshaw of Waco is reported intersted with others in a plan to build a railroad from Hamilton to etown, Texas.

Georgetown, Texas.

Hannibal, Mo.—An official is reported as saying that the Mexico, Perry & Santa Fe Railroad Co. has finished surveys and secured right of way for its proposed interurban line from Hannibal to Columbia, Mo., via Oakwood, New London, Centre, Perry, Santa Fe, Molline, Mexico and Hereford. A branch from Hereford to Fulton is also projected; total length, 103 miles; extension to Jefferson City is contemplated; headquarters at Mexico, Mo.; Mathias Crum, president; C. C. Heizer, vice-president; W. W. Botts, treasurer. Richard H. Phillips, Security Bidg., St. Louis, Mo., is consulting engineer.

Houston, Mo.-The St. Louis & Houston Houston, Mo.—The St. Louis & Houston Mineral Belt Railway Co. has been chartered with \$400,000 capital to build a line from Houston to Cabool, Mo., about 16 miles. The stockholders are A. H. Johnson of Springfeld, Mo.; M. G. Coyle, A. E. Leavitt, Clark Dooley, Robert Lamar, W. T. Elliott, C. F. Speak, R. A. Harrington, E. K. Lyles, all of Houston, Mo. of Houston, Mo.

of Houston, Mo.

Houston, Texas.—Reported that construction will begin within 60 days on the Houston & Galveston Interurban Railway, to be
built by the Stone & Webster Engineering
Corporation, and that Mark Lowd of Dallas,
Texas, will be engineer in charge.

Houston, Texas.-The Westmoreland Railroad Co., capital \$40,000, has been chartered to build a line from Houston to Bellaire, seven miles. The incorporators are W. W. seven miles. The incorporators are W. W. Baldwin, Max Eggert, Burlington, Iowa; A. J. Condit, R. B. Henderson and W. G. Sears of Houston, Texas. Either electric cars or gasoline motors will be used.

Jasper, Ark.—L. S. Powers, promoter of the North & South Railroad Co., which pro-poses to build a line from Bergman to Fort Smith, is reported as saying that the line has been financed by William Umbenhauer, and surveys will begin as soon as some right-of-way questions are setled.

Kansas City, Mo.-The directors of the Kansas City Terminal Co. are reported to have accepted the ordinance of the Kansas City Council for constructing a \$20,000,000 depot. Details not yet settled. H. L. Harmon, president of Kansas City Belt Railway president. The voters of Kansas City will ave to approve the plan before it is ef-

fective.

Kansas City, Mo.—The Kansas City Southern Railway, It is reported, will spend \$1,000,000 for grade reduction between Bunch and Houston, Okla., and DeQueen and Shreveport, La. Some curvature will also be eliminated. About \$250,000 will be spent on the Kansas City terminals. About \$500,000 will be used for ballasting, additional passing tracks and new terminal tracks. A. F. Rust is resident engineer at Kansas City, Mo.

Leslie, Ark .- The H. D. Williams Co. age Co. is reported to have begun work on a five-mile extension of its railroad along Little Red River, which will make the line 20

Louisa, La.—Reported that the J. M. Bur-guieres Company, Ltd., sugar manufacturers, contemplate building a railroad from New Berla to Milton, La., and have secured an option on the right of way of the proposed Louisiana Central Railroad.

Macon, Ga .- An officer of the Atlanta & West Point Railroad Co., referring to the report that it will build a line from Sofkee Macon, writes that there is nothing defi nite at present. Only some tentative in-quiries have been made.

Marked Tree, Ark. — An officer of the Marked Tree, Newport & Western Railway Co. is quoted as saying that contracts will be let about September 1 to build from Marked Tree via Harrisburg, Waldenburg and Wynne, about 49 miles. E. Ritter is president and C. B. Bailey chief engineer, the latter at Wynne, Ark.

rallroad in the eastern part of Kentucky to connect with either the Louisville & Nash-ville or the Chesapeake & Ohio. Harry P. Jones, president of the Big Hill Coal Co., Cincinnati, Ohio, is said to be interested.

McComb, Miss.-N. A. Wall of Nashville McComb, Miss.—N. A. Wall of Assuring Tenn., is reported promoting a plan to build a railroad through the valley of the Amite River via Liberty and probably to Baton

Morris Ferry, Ark.-The Arkansas, Okla MORTIS FERRY, ARK.—The Arkansas, Okia-homa & Paris Railway Co. has been chartered to build a line from Morris Ferry into Okia-homa and Texas. The first section is from Morris Ferry to Moon, Okia., and thence to Harris Ferry, altogether about 30 miles. Incorporators are: P. S. Brown and W. Proyer of Kansas City, J. M. Johnson, A. Dulaney and W. E. Kinsworthy of Ashdown. Ark.

Mullins, W. Va .- The Virginian Railway, Mullins, W. Va.—The Virginian Railway, it is reported, proposes to build about 28 miles of branches, including the following: Stone Coal branch, three miles long; Laurel Fork extension, three miles; Devil's Fork branch, six miles; Upper Stone Coal branch, two miles; Tommy Creek branch, four and three-quarters miles; Piney Creek extension of Winding Gulf branch, eight miles. H. Fernstrom is chief enginer at Norfolk, Va.

Muskogee, Okla.-The Missouri, Oklahom & Gulf Railroad, it is reported, will build its contemplated extension from Muskogee to Joplin as soon as the line is completed to Sherman, Texas. E. J. Noonan is chief engineer at Calvin, Okla.

New Iberia, La.-Construction is repo begun at Port Barre, La., for the New Iberia, St. Martins & Northern Railroad, projected by F. M. Welch of New Orleans. R. L. Lock-wood of St. Louis is chief engineer. P. M. Johnston, Son & Allhands of St. Elmo, Ill., re the contractors.

Orlando, Fla.-The Central Florida Traction Oriando, Fia.—The Central Florida Traction Co. is reported to be the name of the pro-posed line, 45 miles long, to connect Sanford, Winter Park, Orlando and Kissimmee. The officers are M. O. Overstreet, president; D. B. T. Bennett, first vice-president; Dr. J. H. Smith, second vice-president; W. A. Smith, treasurer; L. L. Payne, secretary; A. N. Mc-Kinley, general, manager, directors, E. E. treasurer; L. L. Payne, secretary; A. N. McKinley, general manager; directors, E. F. Sperry, A. McCallum, Dr. R. A. Howard and T. P. Warlow. J. P. Hornaday and W. A. McClintock of New York are reported investigating the plan, for which it is said part of the right of way has been obtained.

Pageton, W. Va.—The Norfolk & Western Railway is reported to have completed an extension of the Tug Fork branch from Pageton to Anawalt, three miles. Another section of the same branch has been opened from Gary to Filbert, W. Va., five mil

Paintsville, Ky.—Contract for the Miller's Creek Railroad of the Consolidation Coal Co. is reported let to Dr. M. G. Watson, Dr. W. L. Walter and P. C. Turner. At present three and one-half miles will be built.

Pawhuska, Okla.-The Oklahoma & Golden City Railroad Co. projects a line from Enid, Okla., to Jefferson City, Mo., 375 miles. Par-tial surveys have been made. Reported that construction in Missouri will be started on 28 miles of line next month, W. S. Hawkins whuska, Okla., is chief engine

Pineville, Ky.-The Louisville & Nashville Railroad is reported to have bought the Straight Creek Railroad, and will build a six-mile extension. W. H. Courtenay is chief engineer at Louisville, Ky.

Quanah, Texas.-A letter says it is de dred to secure a railroad promoter to build a line northwest and southeast out of Qua-nah. Chris Hagelstein may be addressed.

Quitman, Ga.—A temporary organization is reported for the Quitman, Monticello & Tal-ahassee Railway Co.; E. J. Young, president : W. W. Walker, vice-president : C. T. Tillman, secretary and treasurer.

Ripplemend, Va.—The Norfolk & Western s reported to have completed 11 miles of line on the Potts Creek extension, which will be 5 miles long, from a point near Ripplemend to Paint Bank.

Rome, Ga.-Burke & Joseph, general tractors for the Rome & Northern Railre says a letter, have sublet grading to Hill Bros. of Memphis, Tenn., who are preparing to get on the work. W. B. Arnold is local representative for Burke & Joseph.

Salisbury, N. C.—B. B. Miller and T. J. Jerome are reported interested in a plan to build a railroad from Salisbury to Monroe,

San Angelo, Texas.—J. J. Lanin is reported as saying that a company has not yet been organized to build his proposed railway from San Angelo to Carlsbad and Sterling City, Maysville, Ky.—The Kentucky Coal Co., it reported, contemplates building a branch

J. J. Lanin is manager. Address New Hampton, Iowa.

Scottsboro, Ala.-M. J. Bobo is reported interested with others in a plan to build a standard-gauge railroad to develop lands on Sand Mountain.

Shreveport, La. — Concerning the report that a railroad is contemplated from Mem-phis to the Gulf of Mexico, a letter to the phis to the Guif of Mexico, a fetter to the Manufacturers' Record says nothing has been done yet, but that J. G. Curtis of Indiana contemplated building from Memphis, Tenn., to Houston, Texas, possibly via Shreveport, S. J. Zeigler, secretary of the Shreveport Progressive League, Shreveport, La., is among the local parties interested.

Spartanburg, S. C .- The Carolina, Clinch field & Ohio Rallway has not yet decided upon the character of its terminal facilities for Spartanburg. M. J. Caples is chief engi-neer; W. F. Steffens is engineer bridges and buildings, both at Johnson City, Tenn.

Tampa, Fla.—The application to charter the Tampa & Gulf Const Railway says that the line will be 20 miles long from Lutz, on the Tampa Northern Railway, to a point at or near Tarpon Springs; capital \$250,000. Of this, 10 miles are already built, as heretofore reported. The incorporators are Charles II. Brown and C. H. Tedder of Tampa, Thomas Dowling of Live Oak, C. H. Lutz of Petersburg and John K. Cheyney of Tarp

Vilas, Ky.—J. L. Proctor of Vilas, Ky., man-ager of the VanSant-Kitchen Lumber Co.'s plant at Moore's Branch, will, it is reported, build two miles of lumber rallroad for haul-

Winston-Salem, N. C.-The directors of the Finston-Salem Southbound Railway Co. Winston-Salem, N. C.—The directors of the Winston-Salem Southbound Railway Co. have elected officers thus: H. E. Fries, president, Winston-Salem, N. C.; T. M. Emerson, vice-president, Wilmington, N. C.; H. F. Wilkinson, secretary, Roanoke, Va.; W. F. Shaffner, treasurer; M. H. Willis, auditor, both of Winston-Salem, N. C. These appointments were confirmed: E. T. Burnett, purchasing agent, Roanoke, Va.; O. H. P. Cornell, chief engineer, Winston-Salem, N. C.

STREET RAILWAYS

Algiers, La.—The Algiers Railway & Light ing Co. will, it is reported, build an extension to the site of the proposed immigration station. R. S. Stearnes is general manager. at 222 Elmira Ave., Algiers.

Birmingham, Ala.—W. J. Cameron, F. Y. Anderson, George C. Kelley and others have applied for a street railway franchise.

Charleston, W. Va.—The Kanawha Valley Traction Co., it is reported, is building an extension from Charleston via Parkland to St. Albans.

Chattanooga, Tenn.-The Chattanooga Rail-Chattanooga, Tenn.—The Chattanooga Rallway & Light Co. has applied for a charter and will merge the Chattanooga Rallways Co. and the Chattanooga Electric Co., as heretofore reported. Those interested are Foster V. Brown, Frank Spurlock, Joe Brown, J. C. Lightfoot, Jr., T. G. Newman, M. J. Horan and W. E. Boileau.

Corpus Christi, Texas.-Two applications for street railway franchises have been made by Daniel Hewitt and Simon Smith, respec

Gainesville, Ga.—The Gainesville Railway, Light & Power Co. has been chartered to build a street railway from the Gainesville Cotton Mills through the city to New Hol-land and Chattahoochee Park. The incorpoland and Chattahoochee Park. The incorpo-rators are W. A. Carlisle, W. H. Slack, H. H. Dean, A. S. Hardy and others of Gainesville.

Gainesville, Ga.—The Gainesville Rallway & Power Co., capital \$159,000, has been granted a charter to take over the Gainesville Electric Rallway, eight miles long, and it may make extensions.

Marshall, Texas.—The Marshall (Texas) Traction Co. is reported organized to build an electric railway; capital \$25,000; stock holders are Marvin Turney, F. H. Prender-gast, John Copeland and others.

Tulsa, Okla.-The Tulsa Street Railway Co. is reported to have agreed to build an exten-sion to Kendall College and have it completed by September 15.

The Vulcan Supply Co.

The Vulcan Supply Co., 120-122 Sycamore St., Cincinnati, Ohlo, has taken the agency for the Diamond Rubber Co., Akron, Ohlo, and will handle the Indian Red sheet packing, the Titan stitched rubber beiting and the different Diamond brands of hose for water, steam, air, suction, pneumatic, brewers' and fire use. With these the company also handles the other rubber specialties in-cluding saw bands, perforated mats and au-tomobile tires.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery needed we will make their wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. The Manufacturers' Record has received during the week the following particulars as to machinery that is wanted.

npressor.-Ohio Drilling Co., 8 Pille Block, Massillon, Ohio, wants second-hal air compressor; belted; capacity, 100 fe air at 125 pounds pressure.

Air Compressor, etc.-Nilson Yacht Building Co., Ferry Bar, Baltimore, Md., wants catalogues and prices on air compressor and tools

Air Compressor .- C. W. Lyon, care of Kan-Art Compressor.—C. W. Lyon, care of Kansas City, Mo., wants belt-driven air compressor with capacity to operate one large air drill and one "baby" drill for light work.

Alfalfa Mill.—T. A. Threlketd, Wynnewood,

Okla., wants prices on alfalfa mill.

Bank Fixtures.—I. H. Lutterloh, Sanford, N. C., wants prices on bank fixtures.

Barber-shop Equipment.—I. II. Lutterloh, Sanford, N. C., wants prices on barber-shop

Blackboards.-See "Slate Blackboards

Boiler.-G. T. & W. J. Flynn, 111 North Water St., Wilmington, N. C., want prices on new or second-hand 60x16 marine boller; to he set in casing.

Boiler.-See "Electric Equipment."

Boiler.—Roanoke Column & Lumber Co., 407 Terry Bidg., Roanoke, Va., wants new or second-hand 80-horse-power fire-box boiler.

Boller,-See "Engine and Boller."

Boilers. - Office Commissioners District of Columbia. Proposals will be received until August 2 for furnishing and installing two horizontal tubular steam bollers in base-ment of Dennison School, 8 street, between ment of Dennison School, S street, between 13th and 14th streets northwest; for forms of proposal and necessary Information apply to Chief Clerk, Engineer Department, Room 427, District Building; Henry B. F. Macfar-land, Henry L. West, William V. Judson, Commissioners District of Columbia.

Bollers.-See "Government and State Buildunder Corsicana, Texa

Bottles, etc.-J. M. Howard, Sharp, Ark., vants bottles and corks.

Canning Machinery, etc.—N. K. Freeman, McDade, Texas, wants catalogues and prices on cannery machinery and supplies.

Brick.—Taylor & Mount, Lubbock, Texas, ant prices on brick.

Brick Machinery,-N. K. Freeman, McDade exas, wants catalogues and prices on mud rick machinery.

Bridge Construction.-E. J. Rankin, L. A centbrough and Frank U. Garrard, Commis sloners Muscogee County, Columbus, Ga., and R. A. Mizell, J. B. Mathews and W. T. Dennis, Commissioners Talbot County, Tal-botton, Ga., will receive bids until August 20 botton, Gn., will receive bids until August 20 for erection of bridge over Baker Creek, between counties of Muscogee and Talbot, on Macon road; bids to be as follows: First, wooden bridge, covered; second, wooden bridge, uncovered. Plans and specifications on file in offices of Ordinaries of Muscogee and Talbot counties, who are clerks Boards of Commissioners Roads and Revenues of said counties.

Bridge Construction.—Washington County Commissioners, Hagerstown, Md., will open bids August 3 for furnishing material and labor for construction of reinforced-concrete bridge over Beaver Creek; plans and specifications on file in office of commissioners; certified check or draft for \$200; John E. Wagaman, clerk.

Broom Machinery .- T. A. Threlkeld, Wynne od, Okla., wants prices on broom ma-

Building Materials, etc.-E. Miller, Eunice, La., wants brick, lime, cement, cast-iron lin-tels, boits, slate, tin work and plastering for \$13,775 school building, Iota, La.

Building Materials.-Casey & Miller, Texarkana. Ark., want prices on slate, terra-cotta, steel and iron and reinforcing for \$50, 600 school building at Minden, La. Building Novelties, etc.—Unaka Manufacturing Co., Johnson City, Tenn., wants agents or Jobbers' prices on hardware or building novelties.

Canal Construction.—Canal and River Comnissioner, F. B. Pope, chairman, Augusta, Ga., will open bids August 17 for furnishing material, tools and labor and excavating drainage canal 3½ miles iong, 30 feet wide and 6 feet deep; certified check, \$500; Nisbet Wingfield, chief engineer.

Canning Machinery. — Wade Colonization Co., Suite 315, State National Bank Bldg., Texarkana, Ark., wants data on establishment of fruit and vegetable cannery.

Cans, etc.-T. A. Threlkeld, Wynnewood. Okla., wants prices on cans and labels.

Cars.-See "Mining Machinery."

Castings.-See "Machines."

Clock.—Town of Paris, Ark., wants tower clock. Address Geo. M. Zeller, chairman finance committee.

Columns, etc.—W. J. Snead Lumber Co., Greenwood, S. C., wants 24-inch by 20-foot 6-inch and 12-inch by 9-foot built-up columns with composition capitals.

Composition Board.—Columbus Showcase Co., Columbus, Ga., wants to correspond with manufacturers of composition board sultable for showcase bases, etc.

Concrete Mixer.—Morrison Machinery & Supply Co., Richmond, Va., wants concrete mixer; medium capacity; steam or gasoline engine.

Conveying Machinery.—C. W. Lyon, care of Kansas City Brick & Stone Co., Kansas City, Mo., wants conveyor belt and frame complete; belt 30 lnches wide and 150 feet long.

Cotton Gin.—A. W. Van Valkenburg, Honolulu, Hawail, wants information and prices on machinery for Sea Island cotton gin.

Cotton-mill Machinery.—Kinarivala Bros. & Co., 1523 Raja Mehta St., Ahmedabad, India, want agencies for machinery for spinning and weaving mill equipments—spindles, looms, shuttles, bobbins, spools, harness, ring travelers, etc., etc.

Crushers.—C. W. Lyon, care of Kansas City Brick & Stone Co., Scarritt Bidg., Kansas City, Mo., wants three gyratory crushers.

Dikes and Revetment.—U. S. Engineer Office, Kansas City, Mo. Sealed proposals for construction of 8250 feet pile dikes and 4000 feet revetment on Missouri River between Kansas City and mouth will be received until August 16. Information furnished on application. Edward H. Schulz, Major, Engineers.

Ditching Machinery.—W. E. Still, secretary Senatobia Creek Drainage Co., Senatobia, Miss., wants to correspond with users of ditching machines for canals; has 10 to 11 miles to cut.

Drill.—C. W. Lyon, care of Kansas City Brick & Stone Co., Scarritt Bidg., Kansas City, Mo., wants keystone drill complete with bits for three-inch hole.

Electric Conduits and Wiring.—See "Gov ernment and State Buildings" under Paris, Ky

Electric-light Plant.—See "Water-works."

Electric-light System.—See "Water-works

Electric Machinery and Tools.—Nilson Yacht Building Co., Ferry Bar, Baltimore, Md., wants catalogues and prices on motors and electric hand tools.

Electrical Machinery.—Armas Durio, Opelousas, La., wants direct-connected unit, 150 kilowatt, 1122 volts, 80 or 133 cycles.

Electrical Machinery.—Binghamton Light & Power Co., W. M. Tucker, manager, Binghamton, Tenn., wants prices on 150 or 250-kilowatt generator, with 125-horse-power return-tubular boller and 13x14-inch automatic cut-off 270 R. P. M. engine.

Electrical Machinery,—Lubbock Light & Ice Co., R. B. Ellis, general manager, Lubbock, Texas, will open proposals about August 1 for 75-kilowatt A. C. 1100-volt single-phase curipment

Electrical Machinery.—C. W. Lyon, care of Kansas City Brick & Stone Co., Scarritt Bidg., Kansas City, Mo., wants two 50-kilowatt direct-current motors.

Electrical Machinery.—City of Monett, Mo., wants bids for additional electric-light-plant equipment, including Corliss engine, 225 horse-power, 125 H. W. pressure; three tubular boilers; feed-water heater; 90-horse-power H. S. automatic engine; generators, 150-kilowatt, three-phase, 60-cycle, 60-kilowatt, direct connected to engine; four-panel switchboard; arc regulator; wire, poles, etc. Address Perry Short, Monett.

Electrical Material, etc.—Bids will be recelved at office of General Purchasing Officer, Isthmian Canal Commissioner, Washington, D. C., until August 10 for furnishing electrical material, including fixtures, fittings, batteries, cable, wire, etc. Blanks and general information relating to Circular No. 526 may be otbained at above office or office of assistant purchasing agents, 24 State street; New York; 55 National Realty Building, New Orleans; 1086 North Point street, San Francisco, Cal.; also from U. S. Engineer office in following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Philadelphia, Pittsburg, Boston, Buffalo, Cieveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanoga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

Engine.-See "Electric Equipment."

Engine and Boiler.—Vaughan-Cunninghan Tobacco Co., Lexington, Ky., will buy engine and boiler.

Engines.—G. T. & W. J. Flynn, 111 North Water St., Wilmington, N. C., want prices on two new or second-hand engines; 19x48, 12x48 or 9x48.

Engines.—Roanoke Column & Lumber Co. 407 Terry Bidg., Roanoke, Va., wants 50 horse-power and 15-horse-power engines; new or second-hand.

Excavating and Grubbing.—Board of Commissioners, Galveston Drainage System, Capt. B. E. Johnson, secretary, Arcadia, Texas, will receive bids in duplicate until August 30 for excavating 450,000 cubic yards of material and clearing and grubbing 67 acres of bayou timber; R. W. Luttrell, engineer, Galveston, Texas.

Fire Protection.-See "Water-works."

Flue Cleaner.—Dr. W. F. Austin, chairman Board of Public Works, Seneca, S. C., wants steam flue cleaner for electric-light plant.

Hardware.-See "Building Novelties, etc."

Heaters.—Peacock's Iron Works, Selma, Ala., wants second-hand heater for 150-horsepower stationary tubular boiler. (Address in previous notice incorrect.)

Heating.—A. M. Gooch, clerk Board of Education, Hartshorne, Okla., will receive bids until August 10 for heating school; certified check for \$200; plans and specifications on file with clerk or at office of Smith & Parr, architects, McAlester, Okla.

Heating and Ventilating Apparatus.—Department of Justice, Office Superintendent Prisons, Washington, D. C. Sealed proposals will be received at this office until August 16 for furnishing and installing at United States Penitentiary, Atlanta, Ga., heating and ventilating apparatus for hospital building, in accordance with specifications. Copies of specifications, together with further information, on application at Washington office. R. V. LaDow, superintendent of prisons, Washington, D. C.

Heating Apparatus.—See "Government and State Buildings" under Paris, Ky.

Heating Plant. — See "Government and State Buildings" under Corsicana, Texas.

Heating Plant.—Rev. W. L. Hamblin, 1107 22d St., Tuscaloosa, Ala., wants prices on hot-air heating plant for \$8000 editice.

Heating Plant. — See "Government and State Buildings" under Gainesville, Fla.

Heating Plant.—Jesse Green, Chief Commissloner, Alken, S. C., will open bids August 6 for heating plant and repairs to courthouse; plans and specifications may be seen at Commissioner's office on Mondays, Tuesdays and Saturdays until August 7, when contract will be awarded.

Heating Plants.—City of Mayfield, Ky., Prof. A. C. Burton, superintendent, in receiving proposals for steam-heating plants for three \$18,000 school buildings and old college building; plans, etc., by R. H. Hunt, James Bidg., Chattanooga, Tenn.

Hoisting Engine.—Morrison Machinery & Supply Co., Richmond, Va., wants second-hand 10 and 15-horse-power double-cylinder single-friction-drum hoisting engine.

Holsting Engine,—R. L. Beasley, Dothan Ala., wants 20-horse-power double-cylinder hoisting engine with boller to resist strain of 100,000 pounds of stump-pulling.

Ice Machine.—G. T. Heard, Brooksville, Miss., wants second-hand 10 to 15-ton ice machine.

Ice Plant.—Thos. Field, 255 Main St., Dallas, Texas, wants prices on 10 to 15-ton ice machine and data on manufacture.

Iron.—Frye & Sparger, Box 363, Durant, Okla., want prices on iron for \$13,500 school building.

Irrigation Machinery.—D. E. Piper, 29 Garnett St., Atlanta, Ga., wants plant to irrigate from 15 to 30 acres; to pump water from lake and lift 10 feet.

Labels.-See "Cans, etc."

Levee Construction.—Bids will be received at office of Levee District No. 1, Yell county, at Dardanelle, Ark., until August 16 for construction of 35,000 cubic yards of levee embankment, reinforced concrete lock and dam, and 10 reinforced culverts, varying in length from 50 to 100 feet. Separate bids will be received on earthwork and concrete work; certified check for 10 per cent. of bid; blanks furnished upon application to secretary. For detailed information address Thomas Boles, chief engineer, Fort Smith, Ark., or secretary Levee District No. 1, Dardanelle, Ark.; J. A. Croom, president.

Locomotives.—See "Mining Machinery."

Machine Tools.—Nilson Yacht Building Co.
Ferry Bar, Baltimore, Md., wants catalogues
and prices on machine-shop tools.

Machinery.-H. E. Hollister, 122 East 25th St., New York, wants catalogues on all types of machinery of interest to engineers.

Machine Tools, etc. — McMillan Pump Power & Manufacturing Co., Wm. McMillan Kansas City, Kans., will open proposals Sep tember 15 for lathe, 12-luch swing, 8-foot bed; lather, 30-inch swing, 8-foot bed; planers; drill presses; emery wheels; boring machine for iron, and complete outfit for pattern work.

Machines.—R. C. Helms, Dothan, Ala. wants to correspond relative to placing or der for manufacture of machine to dress mill racks; principally casting.

Metal Ceiling.—Rev. W. L. Hamblin, 1107 22d St., Tuscaloosa, Ala., wants prices on metal ceiling.

Metal Lath.—Frye & Sparger, Box 363, Durant, Okla., want prices on metal lath for \$13,500 school building.

Metallic Tile.—Taylor & Mount, Lubbock, Texas, want prices on metallic tile.

Mill Work.—Taylor & Mount, Lubbock, Texas, want prices on mill work for \$25,000 school building.

Mill Work.—Frye & Sparger, Box 363, Durant, Okla., want prices on mill work for \$13,500 school building.

Mining Machinery.—Winding Gulf Colliery Co., 1503 Union Trust Bidg., Cincinnati, Ohio, will buy mine cars (probably of steel construction), electric locomotives, mining machines, etc., for coal-mining plant near Abney, W. Va.

Motor Truck.—Sneed Bros., Pronto, Ala., want to buy light and serviceable automobile for hauling fruits and vegetables.

Office Fixtures, etc.—Street & Sanders, Lock Box 144, Seneca, S. C., want office fixtures and supplies.

Paper Bags.-M. L. Long & Sons, R. No. 1 Glasgow, Va., want names of manufacturers of paper flour bags.

Patternmaking.—See "Machine Tools, etc."
Paving.—A. J. Hawkins, City Engineer
North Birmingham, Ala., will open bids July
27 for grading, macadamizing, laying of con
crete sidewalks and gutters, granite curbs
and drains on 24th and 26th streets and Nine
teenth and Twentieth avenues; storm-water
sewer beginning at city limits and ending at
Village Creek and Twenty-third avenue; same
to be constructed of brick or reinforced concrete pipe and terra-cotta pipe; certified
check \$250; full particulars, plans and specifications on file at engineer's office, City Hall.
North Birmingham. (Date postponed from

Paving.—Street Committee, E. B. Hawks and S. T. Montague, chairmen, Portsmouth, Va., will receive bids until August 5 at office of City Clerk for furnishing tools, labor and materials required in constructing 435 square yards concrete sidewalks and 1100 square yards granite-block gutters on certain streets in West Park View, in Fifth ward; plans and specifications at office of Bascom Sykes, City Engineer; bids for pavements to be made at cost per square yard, including materials and labor, and be on blank form obtained at office of City Engineer; each bid on concrete pavement to be accompanied by certified check for \$50 and on granite block gutter by certified check for \$200, payable to George A. Tabb, City Treasurer

Paving.—Bids will be received at office of Capt. W. W. Whiteside, Constructing Quartermaster, Fort Myer, Va., until August 13 for paving main passageways with vitrified brick, and concrete as an alternative, in four cavalry stables; certified check, 10 per cent. of bid; plans and specifications on application accompanied by deposit of \$5.

Paving.—Baltimore (Md.) Board of Awards will open bids August 4 to grade, curb and pave with vitrified paving blocks Stag alley from Marion to Lexington street; specifications and proposal sheets furnished on application to Department of Public Improvements, Subdepartment of City Engineer B. T. Fendall,

Paving.—Bids will be received at office of City Clerk, West Blocton, Ala., until July 30 for certain grading, curbing, macadamizing and brick gutters. Plans, specifications and proposal forms may be obtained at office of City Clerk or of Totten & Ohl, City Engl. neers, Birmingham, Ala; certified check, \$150.

Paving.—City of Franklin, La., will open bids August 5 for approximately 65,000 square feet sidewalks and 32,500 square feet brick curbing; John C. Lewis, Mayor.

Paving.—Bids addressed to Mayor and General Council, Atlanta, Ga., will be received at City Clerk's office until August 9 for paving Decatur street, 22,000 square yards, with creosoted wood block on concrete foundation; also for paving Madison avenue with same pavement, 2300 square yards. Bids will be considered separately on each street. Specifications furnished on application to R. M. Clayton, City Engineer.

Paving.—Robert Tait, City Treasurer, Montgomery, Ala., will open bids August 2 for paving roadways on portions of South Lawrence and Mildred streets with brick, asphalt, bitulithic, Blome granitold or mineral rubber pavement, together with necessary grading, etc., in connection. Also for paving sidewalks on following streets with hexagon tile or Schillinger pavement, together with all necessary granite curbing, grading, sewers and brick walls in connection: Union, South Lawrence, Jefferson and Julia streets; for paving sidewalks with hexagon tile, together with necessary work, on Stevenson street and East Jefferson Davia avenue; for improving Clitherall street by grading, curbing, gutters, storm-water sewers, etc. All work in acordance with details, drawings, plans, specifications and surveys on file in office of City Engineer A. R. Gilchrist.

Paving.—Commissioners of Street Improvement District No. 1, J. E. Stevenson, secretary, Marianna, Ark., will open bids August 5 for 13,400 square yards vitrified-block paving on five-inch concrete base, 4000 linear feet concrete curb, etc.; plans and specifications on file at offices of Mr. Stevenson and of Ben C. McGehee, engineer, Little Rock, Ark.

Paving.—J. G. Sutton, City Secretary, Beaumont, Texas, will open bids August 3 for furnishing material and labor for paving gaps in present paving on College, Austin, Park and Pearl streets, aggregating 4120 square yards vitrified brick paving and 2873 linear feet concrete curbing; certified check, \$2900; blank proposal forms furnished by C. L. Scherer, City Engineer; plans and specifications on file at office of City Engineer, and specifications can be obtained on application.

Paving.—Franklin, La., will receive bids until August 5 for construction of 65,000 square feet cement sidewalks and 35,000 square feet (face measurement) brick curbing. For plans and specifications apply to John C. Lewis, Mayor.

Paving.—Bids will be received at office of Major C. C. Ballou, U. S. Army, Constructing Quartermaster, 427 Custom-house, Baltimore, Md., until August 27 for construction of 15,000 square feet granolithic sidewalks at lort Howard, Md. Plans and specifications may be seen at office of Chief Quartermaster, Department of the East, Governor's Island, N. Y.; blank forms and full information furnished on application.

Paving, etc.—J. J. Hayes, Mayor, and Board of Aldermen, Vicksburg, Miss., will open bids September 6 for paving Cherry street with asphalt, bitulithic, mineral rubber, granifold, vitrified brick or creosoted wooden blocks; also separate bids for building storm sewer and laying water main on sald street; plans and specifications on alphication to C. R. Twiss, City Engineer.

Peanut Machinery.—N. S. Sherman Machine and Iron Works, 18-36 East Main St., Oklahoma City, Okla., wants machinery to shell, clean and pick peanuts.

Pipes and Fittings. — See "Sawmill Ma

Plumbing.—A. M. Gooch, clerk Board of Education, Hartshorne, Okla., will receive bids until August 10 for plumbing and wiring school; certified check for \$200; plans and specifications on file at office of clerk or of Smith & Parr, architects, McAlester, Okla.

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Plumbing and Gaspiping. — See "Government and State Buildings" under Paris, Ky

Portable Houses.—W. B. McEwen, 276 Chest nut St., Asheville, N. C., wants to correspond with manufacturers of portable houses with view to agency.

Pump.—Morrison Machinery & Supply Co-Richmond, Va., wants second-hand four or six-inch belted centrifugal pump. 900. _

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Pumps.—T. J. League, Tsingtau, China, cants to arrange for introduction of irri-ating pumps to be operated by hand. Beinforcing -See "Building Materials."

Road Construction.—Bids will be received at Clerk's office, Henrico Courthouse, Richmond, Va., until August 3 for construction of two miles of macadam on Cary-street road: plans and specifications on file at office of State Highway Commissioner P. St. J. Wilson; further information furnished on application; certified check, \$250.

Road Machinery.-R. L. Beasley, Dothan, A'a., wants road machinery.

Road Roller.—C. A. Bingham, Carlisle, Pa. wants second-hand steam road roller (name erroneously printed "Brigham" lately).

Relling Partitions.—Jopling Bros., Whar-ton, Texas, want prices on wood rolling partitio

M. T. Murphree, Monticello Roofing. press & Warehouse Co., Monticello, Miss., wants prices on roofing.

Safe, etc.-Dacula Banking Co., A. M. Wilson, president, Dacula, Ga., wants prices safe, vault and bank fixtures.

Safe, etc.—Farmers' State Guaranty Bank J. S. Huston, president, Thomas, Okla., wants prices on safe, vault and bank fixtures.

Safe, etc.-E. Hall, president First State Bank & Trust Co., Bryan, Texas, wants orices on safe, vault and bank fixtures.

Saw.-R. D. Cole Manufacturing Co., New a., wants cold saw for cutting angles, and channels up to and including 12

sawmill Machinery, etc.—Roanoke Column & Lumber Co., 407 Terry Bidg., Roanoke, Va., wants one 3-foot and one 3½-foot fan; 24x6 or 24x8 four-side planer; Jig saw; 18-inch hand jointer; arm sander; power-feed ripsaw; power-feed mitre saw; cross-cut saw; cut-off saw swing; swing heading saw; 56 to 66-inch saw: drykiln pipes and fittings; all new or second-hand.

Sawmills.—Kirby Lumber Co., B. F. Bonner, general manager, Houston, Texas, will be in market for complete plant, including circular and band mill, planer, dryklins, etc.; cost probably several hundred thousand

Screens .- C. W. Lyon, care of Kansas City Brick & Stone Co., Scarritt Bidg., Kansas City, Mo., wants one 10-foot-long revolving sereen with 1½-inch perforations, and one 48 inches by 20 feet long; perforations of first sheet to be 1½ inches, second sheet 1 inch, third sheet ¼ inch, with dust screen

wants seating for \$3000 addition to school building.

Sewer Construction.—Sealed proposals for construction of sewer known as section "B" of western interceptor, contract No. 49 of comprehensive system of sewerage, city of Louisville, Ky., will be received at office of Commissioners of Sewerage until August 6; work will consist mainly of building unreinforced concrete sewer three fect six inches and five feet in diameter, length about 4000 feet, 12 to 25 feet deep, including 1875 cubic yards concrete; plans and specifications at office of commissioners and at office of Harrison P. Eddy, consulting engineer, 14 Beacon St., Boston, Mass. Each bid must be accom-Sewer Construction.-Sealed proposals for St., Boston, Mass. Each bid must be accompanied by certified check for at least 7 per cent. of total amount of bid, or a "bidder's bond," as described in proposal form. W. C. Nones, chairman; Chas. P. Weaver, secretary-treasurer : J. B. F. Breed, chief engineer

Sewer Construction.-See Paving, etc.

Skidding Machine.—J. H. Macleary, Suffolk, Va., in market for skidding machine; second-hand, with cylinders 7 or 74x10 inches; name dealers' price and where located

Slate,-Piland & Davis, Newport News, Va. want prices on slate (Buckingham preferred.) Slate Blackboards.-J. F. Barbour & Co. Va., want prices on slate black-

Steam Hammer.—Chas. T. Lehman, 1923 Powell Ave., Birmingham, Ala., wants 300 to 600-pound steam hammer; state make, con-

dition, etc. Steel Ceiling.-G. L. Boley, Abilene, Texas wants prices on 65 or 70 squares steel ceiling.

wants prices on 65 or 70 squares steel ceiling.

Steel Flooring.—The undersigned will receive bids for flooring cells in old portion of parish jail at Tallulah, La.; specifications on file with secretary, and will be shown on application; successful bidder to make deposit or give bond for faithful discharge of contract. Bids will be opened by Jail Board on or before September 1; A. L. Slack, secretary.

Store Fixtures.-I. H. Lutterloh, Sanford, N. C., wants prices on drug-store fixtures.

Tin-box Machinery .- J. V. Reed & Co., Sta ion F, Louisville, Ky., want catalogues and orices on machinery to make oval, round, ob-ong or square talcum powder boxes, etc. prices o

Tub Machinery.—Dare Lumber Co., Elizabeth City, N. C., wants names of manufacturers of tub machinery.

Water Softeners.—See "Government and State Buildings," under Corsicana, Texas.

Water-works.—M. T. Murphree, Monticello Compress & Warehouse Co., Monticello, Miss., wants prices on water tanks and pumps for fire protection.

Water-works.-See "Paving, ctc."

Water-works. - Johnston County Commis-sioners, Sam T. Honeycutt, clerk, Smithfield, N. C., invite bids until September 6 for con-struction of water-works for courthouse and jail; plans and specifications on file in office Register Deeds, Smithfield. For further information address Mr. Honeycutt.

Water-works. - Lexington, Tenn., contem plates installation of water-works and elec-tric-light plant and wants to correspond with consulting engineer representing ma-chinery company who will submit estimate; exceed \$15,000. Address H. E.

Water-works.-F. M. Houser, Mayor, Perry, Water-works.—F. M. Houser, Mayor, Ferry, Ga., will open bids August 18 for furnishing machinery and materials and constructing water-supply system; plans, details and specifications on file with City Clerk, Perry, and at office of consulting engineers, Hazlehurst & Anderson, Candler Bldg., Atlanta

Water-works etc.-W. T. Quarles chairman committee on light and water, 514 Fifth avenue, Highland Park (P. O. Richmond), Va., invites proposals until July 31 for preparing plans and specifications for electric-light and water-works systems. For further informa-tion apply to Mr. Quarles.

Well Drilling.—Chris & George Hagelstein guanah. Texas, want bids on drilling 5000 Quanah. foot well.

Wiring.-See "Plumbing."

Woodworking Machinery.-See "Tub Mahinery.

Woodworking Machinery.—W. A. Parker, Boston, Ga., wants band resaw and molding and flooring machines.

Woodworking Machinery. — Nilson Yacht Building Co., Ferry Bar, Baitimore, Md., wants catalogues and prices on woodworking machinery.

INDUSTRIAL NEWS OF INTEREST

Contract for Power Plant.

The G. & W. Manufacturing Co., 26 Cortlandt St., New York, submitted the lowest bid to the Navy Department on July 20 for power-plant work at the Naval Training Station, Newport, R. I. The amount of the bid was \$11,630.

Quanah Wants Distributing House.

The citizens of Quanah are desirous of securing a distributing house for the sale of vehicles, agricultural implements, wagons, buggies, gasoline engines, etc. There are several inducements the city offers. Address the Chamber of Commerce, Porter A. Whaley, secretary, Quanah, Texas.

A Rig Ditch Contract.

The Commissioners of Drainage District No. 1, Bancroft, Neb., have awarded contract for the construction of nine miles of ditch to G. A. McWilliams of Walnut, III. This ditch will drain about 10,000 acres of land in the Logan River Valley and will cost \$22,000.

The Gallivan Building Co.

The Gallivan Building Co. of Greenville, S. C., is prepared to undertake contracts for the construction of buildings throughout the South, and has erected many of the cotton-mill buildings in that section. J. F. Gallivan esident of the company, which was for erly the J. F. Gallivan Building Co.

Charleston Water-Front Property.

Among the Charleston water-front proper-ies for sale is a 170-foot wharf site in the eart of the city and railroad facilities, also a factory or mercantile site comprising one-half of a city block. Triest & Israel, 43 Broad St., Charleston, S. C., will furnish full

Textile Machinery Offered.

Textile manufacturers who may need additional equipment are invited to investigate a lot of textile machinery offered by the Thompson Manufacturing Co. This company Thomas has for sale singeing machinery, repeaters, card lacers, Jacquard machines, etc. It can be addressed at Indiana avenue and A street, Philadelphia, Pa.

For Axle Lighting Equipments.

The Atchison, Topeka & Santa Fe Railroad has recently placed an order covering 116 axle lighting equipments for their cars. The order includes 1856 storage-battery cells man-ufactured by the Electric Storage Battery Co. of Philadelphia. The Santa Fe uses the 'chloride accumulator" exclusively on its car-lighting equipments.

A Guatamala Timber Concession.

A 10-year timber concession in Guatamals is offered to purchasers for investment or de is offered to purchasers for investment or development. It controls 1200 square miles and the land is traversed by four navigable rivers. Twelve miles of portable sawmili railroad brings the timber from any point to one of these rivers. Address Atwood Violett one of these rivers. Address Atwood Violet & Co., 20 Broad St., New York, for partic

Contract for Bank Fixture

The Lebanon National Bank of Lebanon, Tenn., has awarded a contract for improve-ments in its offices. This contract includes creening, wainscoting, desks, new fixtures, tc., and was awarded to the Edgefield & Nashville Manufacturing Co., Nashville,

Tenn. The company named manufactures furniture, desks, counters, hardwood mantels, church pews, bank fixtures, etc., and has a large modern plant.

Factory and Power Site.

A factory and Power Site.

A factory and power site located on the Baltimore & Ohlo Railroad and with a switch to the Chesapeake & Ohlo Railway is offered for sale. It includes a developed water-power furnishing 60 horse-power and five and one-half acres of land, said to be valuable for any class of manufacturing industry. Particulars can be obtained by addressing Tannehill & Raiston, Staunton, Va.

Offers Box and Veneer Plant.

A complete box and veneer plant at Raleigh offered for sale. It comprises buildings, achinery, power equipment, etc., for manucturing tobacco caddies, shipping cases. facturing veneer and other wood products. The plant is said to offer an exceptional opportunity r some manufacturer desirous of acquiring Southern plant in a desirable section. B. Parker, West Raleigh, N. C., can furnish full details.

Asphalt and Townsite Propositions.

Capitalists who may be in position to consider asphalt and townsite propositions in Oklahoma are invited to address W. P. Poland at Ardmore, Okla. He offers a 500-acre townsite located within half a mile of a progressive city of 12,000 inhabitants, and rock-asphalt beds for development and the sale of the product for paving purposes. It is un-derstood these two properties and several others for sale by Mr. Poland offer excellent opportunities for investment or development

Weiman Pump Manufacturing Co.

Weiman Pump Manufacturing Co. Succeeding the Weinman Machine Works of Columbus, Ohlo, the Weinman Pump Manufacturing Co. has incorporated and established its offices and factory at 274 Spruce street, Columbus. Its building is 50x150 feet, with space for an extension, the offices being located on the first floor and the drafting-rooms and pattern shop on the second. This company manufactures pumps of various designs, which have been favorably introduced, and is installing new equipment for the improvement of its facilities.

B. F. Sturtevant Co. Reorganized.

The B. F. Sturtevant Company has been reorganized and recapitalized. The new corporation is organized with \$1.250,000 6 per cent., cumulative preferred stock and \$1,250. f common stock, and the stock has all taken by a few of the large owners. Carr, chairman of the board of directors of the First National Bank, is pres Eugene N. Foss is treasurer, and E. B. Free man is general manager. This increase capitalization represents capital expenditure

power, and are especially adapted to the use of blast-furnace and waste gases. Several distinctive features of construction have been developed with the idea of simplicity, accessibility and uniformity in all parts, and the ability to make long runs and give conthe annity to make long runs and give con-tinuous reliable service. A recent sale by the company was of a gas-engine-driven gas compressor to the Wheeling Natural Gas Co., Pittsburg, Pa., to be installed in one of the company's pumping stations near Wheeling. W. Va. This engine is to be the horizontal twin-tandem double-acting type, driving gas compressors for the long-distance transmission of natural gas.

Charlotte Company's Asbestos-Magnesin.

The Carolina Asbestos Manufacturing Co., Charlotte, N. C., calls especial attention to its asbestos magnesia. This covering is composed of carbonate of magnesia, pure asbestos and other fireproofing materials compounded in the most approved way, which renders it a most durable pipe covering. It is made in sections three feet long, covered with a heavy canvas jacket and furnished complete with the necessary brass bands to hold it securely in place on the pipe. Where compared with the necessary prass bands to hold it securely in place on the pipe. Where great strength and durability are required, together with best results in steam saving, this covering is in demand. The company also offers asbestos cement, composed of as-bestos fiber and adhesive non-conducting ma-terials, for covering boilers, fittings and irregular surfaces, put up in dry form in bags of 100 pounds each. This asbestos cement sticks easily and can be easily applied mixing with water and applying with mixing with wa trowel or paddle,

Recent Ice Machinery Sales.

Recent Ice Machinery Sales.

There has been an increasing demand for ice and refrigerating machinery during recent months, and a considerable portion of the contracts have been secured by the York Manufacturing Co., York, Ps. This company's sales from March 24 to July 26 included about 40 large contracts for ice plants ranging in capacity from 10 to 30 tons and for refrigerating plants of capacities from 4 to 40 tons, besides compression sides of various capacities up to 90 tons, etc. The machinery was shipped to various classes of rious capacities up to 90 tons, etc. The machinery was shipped to various classes of industries throughout the country, including the following; Forty-ton refrigerating plant to Rochester, N. Y.; 10-ton refrigerating plant to Allegheny, Pa.; 10-ton refrigerating plant to Uvalde, Texas; 30-ton lee plant to a brewing company at New Britain, Conn.; 10-ton refrigerating plant to East Webster, Mass.; 30-ton compression side to a Spring-Mass.; 90-ton compression side to a Si field (Mass.) company; 30-ton compre side to a Texas cotton-oil company, etc.

TRADE LITERATURE.

Jeanesville Centrifugul Pumps.

Bulletin No. 39, illustrating and describing the Jeanesville centrifugal pumps, has been issued by the Jeanesville Iron Works Co. of Hazleton, Pa. This company manufactures the products referred to, and has recently received orders for 10 18-28x48x9½x36-inch triple-expansion pumps, one 15-24x49x15x24-inch triple-expansion pump, one 9½-16x26x 9½x18-inch triple-expansion pump, two 9-14x 14x84x48, high triple-expansion pumps, two 9-14x 14x84x48, high triple-expansion pumps, and pump. 14x81/4x18-inch triple-expansio on pumps, a num ber of horizontal and vertical power pumps and numerous medium-size mine pumps.

Timely Belting Information.

Users of belting for transmission purposes will be interested in "The Phoenix," a monthly magazine issued by the New York Leather Belting Co. of 51 Beekman 8t., New York. The publication considers technical discussions, with illustrated descriptions of transmission problems, and shows compara-tive tests of the efficiency of various types of beiting for different classes of machinery. Among the subjects discussed in recent issues of the magazine is that relating to transmission conditions in Southern mills.

Copies of the publication may be obtained on application to the company

Berger Steel Office Furniture.

man is general manager. This increased capitalization represents capital expenditures during the past year, largely in the erection of a new plant in Hyde Park, Boston, Mass., which cost over \$1,500,000. The B. F. Sturtevant Company has been transacting a business of about \$3,000,000 a year.

C. & G. Cooper Gas Engines.

The C. & G. Cooper Company, Mt. Vernon, Ohio, has developed and is now building a line of large gas engines of the horizontal double-acting twin-tandem four-cycle type, in addition to its well-established Corliss steam engines. The new engines are being built in sizes ranging from 400 to 5000 brake horse-Steel equipment for offices is in increasing

manufacturing and mercantile world can be seen Berger specialities meeting the needs of progressive people. The company's main offices and plant are at Canton, Ohio.

Electric Drive for Printing Presses.

The General Electric Bulletin No. 4672 tells of the advantages of the electric drive as compared with the mechanical drive for large printing presses. It contains a description and illustration of a plant equipped by the General Electric Co. of Schenectady, N. Y., which has developed a line of motors provided with special controlling devices designed for the operation of large printing presses. A notable feature of the equipment is a multiple push-button speed-control system, which ensures the safety of the press operator and gives positive control of the press at all speeds. The bulletin illustrations show details of equipment and actual installations.

A Pump for Suburban Homes.

The Gould's Pyramid pump is offered especially as a means of providing water supply on country estates and in suburban homes. It will ensure plenty of water under a satisfactory pressure for the bathroom, kitchen or any part of the premises, and gives satisfaction not only for general service, but for fire protection also. This pump is a medium-price power pump with a reputation. It is built in the best possible manner and will withstand the hardest kind of service for years when operated by gas, gasoline engine or other belt power. The Gould Manufacturing Co., Seneca Falls, N. Y., manufactures the Pyramid pump and is distributing literature describing it.

The Lea Turbine Pump.

Those who are interested in high-duty turbine pumping machinery suitable for all classes of service should not fail to investigate the Lea high-duty turbine pump. The Lea high-duty turbine and volute pumps are suitable for practically all classes of service—water-works, irrigation, reclamation, fire service, mine drainage, boiler feed, sugar mills, etc. The Lea pump is constructed from Swiss designs which have been Americanized in order to conform to American practice. It is described and illustrated in Bulletin H, which the manufacturer is distributing. The manufacturer is the Lea Equipment Co., 99 West St., New York, which is prepared to send full details of its machinery to Inquirers.

A CORRECTION.

Heating Plant. — Bids addressed to M. Brady, secretary School Board, Texarkana, Texas, will be received until August 10, 1909, far heating, plumbing and wiring proposed high school; plans and specifications on file with Sanguinet & Staats, architects, Fort Worth, Texas, and at office of the board, Texarkana; certified check for 3 per cent. amount of bid, payable to A. S. Watlington, president School Board. Erroneously stated in a previous issue that bids would be received only until July 26.

Bank Buys Trust Company.

A letter from Spartanburg, S. C., to the Manufacturers' Record says that the First National Bank of Spartanburg has bought the entire stock of the Fidelity Loan & Trust Co. of that city at \$294 per share. The company was organized in 1887, and has always had a very prosperous business. The First National Bank has a capital of \$500,000, a very large business, and in its directorate millions of dollars are represented. The officers are W. E. Burnett, president; John B. Cleveland, vice-president; A. M. Chreitzberg, cashier, and S. B. Jones, assistant cashier.

It is estimated that 2000 carloads of Georgia peaches brought this year \$1,000,600, against \$975,000 which 6000 carloads brought last year. The fine financial showing this year in spite of crop conditions is credited to the work done by the Georgia Fruit Exchange in marketing the crop systematically.

Douglas Robinson of New York, who has for some years been interested in about 30,000 acres of timber and cleared mountain lands in Washington and Grayson counties, Virginia, is, according to a dispatch from Bristol, spending between \$40,000 and \$50,000 in establishing upon the tract a fruit and vegetable farm.

MORE NATURAL GAS.

Larger Volume of Industrial Fuel for West Virginia Capital.

[Special Cor. Manufacturers' Record.] Charleston, W. Va., July 24.

This city seems just now to have every thing coming her way, and unless all signs fail is on the eve of an era of unexampled progress and prosperity. For a number of years it has been known that the outout of a great gas field was more easily accessible to Charleston than to any other ity, and that the problem of the cheapest and best fuel had been solved for many years to come, but even the most optimistic Charlestonian failed to know to what an extent this great blessing is to be enjoyed. Within the last few days it has become enerally known-knowledge of the fact having been locked in the bosoms of a small and favored group up to that timethat a new gas field had been found, or that the old one was much larger than had been known hitherto.

The Weir interests, engaged in mining. a rich vein of cannel coal on Falling Rock creek, in the northeastern part of this (Kanawha) county, have had drilled upon their property five wells, each of which has proved a gas producer, the combined capacity being in the neighborhood of 10, 000,000 cubic feet a day. This production s some 10 miles east of the Roane county field, whence the city's supply now comes. and makes the assurance of a supply to last for many years doubly sure. The new field lies something like 15 miles from the city in a northeasterly direction. Nor is that all the good news in the matter of On Mill Creek, which lies between the city and the Falling Rock field, a large gasser was struck this week, thus demonstrating the fact that the field extends this way, and it is now believed by many well-informed gas men that Charleston lies right in the center of it, and that sooner or later the city's gas supply will come from the ground right beneath her feet, as it were. The Mill Creek well is good for 2,000,000 feet daily, and is the property of the United Fuel Gas Co. is about seven miles from the city as the crow flies or the pipe line runs. And between this place and that, on Two-mile Creek, about three and a haif miles from the city, a well was drilled for oil in 1879 and a considerable flow of gas developed. The well was left open and the gas escaped at will for a good many years. Sometimes it would be set afire, and for veeks, possibly months, at a time would light up the woods for miles around at night.

But the new development on Falling Rock is not confined to gas. Each of the five mells put down by the Weirs is an oil cell also, and it is believed by the experts that a new oil field has thus been discov ered. The managers of this enterprise have kept their own counsel as they have progressed with their wells, and have closed them in as completed, without letting the outside world know what they had discovered. Each well produced a good flow of gas and a considerable amount of oil, but nothing big in the latter commodity. A few days ago the well showing the least of both gas and oil was "shot," and from that time on has been producing oil, being considered good for 10 barrels a day. It is believed that this well is on the edge of the pool, and that all the others will prove to be much better after having been treated to a dose of nitroglycerin in a state of active eruption This production is found in the "Squaw and, which lies just below the "Big Injun," some 1700 feet below the surface of the earth. The sand is very thick, a fact which promises well for a lasting production.

What this may mean nobody, of course, can fell with anything that approaches certainty, but it is believed that a new and rich pool of oil has been brought to light, and those who have been excited heretofore over the prospects of a great cil development with Charleston as the center have been stirred to fever heat, while the most phlegmatic citizens of the town have begun to "sit up and take notice." This production is due east from the Rock Creek field in Roane county about 15 miles.

Eugene Childs and Fred E. Sands, formerly officials of the Tremont Manufacturing Co. of Boston, have been here recently looking over the ground with a view to locating an immense wrench factory. They have been on a deal with the Baldwin Steel Co. for its plant, which has been idle for most of the time during the past two years, owing to the death of the young man who was manager, and on whose behalf the plant was constructed. The new parties have found the plant well adapted to their purposes, and a price has been agreed upon between them and the Baldwin company. The deal will probably be consummated, as it now depends upon certain matters that the Chamber of Com merce has taken in hand, with every promise of being able to close up in a satisfactory manner. The wrench people, if they establish their factory here, will employ 150 men in the beginning, and expect to increase the number rapidly until their payroll will be second to none in the city, except the Kelly axe factory.

Another enterprise to which the Cham ber of Commerce is now turning its attention is the construction of a macadamized turnpike from this city to the Roans county oil field. The trade of that field s rich and important, and the city that can furnish it with a good road will cor ral the most of it. At present the roads to the field from all outside points are well-nigh impassable, and the hauling of another winter will put them clean out of business. Grant P. Hall, who as a member of the county court last year did mor to get the roads of Kanawha county improved than any other man ever did, has been placed at the head of the committee baving the matter in charge, and it is expected that he will be able to get the pres ent county court to take the matter up at once. The construction of such a road would mean many hundreds of thousands of dollars in trade to the merchants of

Mr. John A. Coyle, who has been managing the Baldwin Steel Co.'s plant here for some time, and who has had excellent opportunities for studying conditions in and around Charleston, sizes up the city, its resources and prospects in an interview as follows:

"Without disparaging the growth and uccess of Pittsburg in the least, it can be said that Pittsburg is more or less of an accident, but it is hoped that the success of this city will be due to the foresight of her citizens and systematic development. Geographically we do not have to concede a point to any rival. While we do not have as many railways as some, we have one stream which is ample to take care of any number of industries which may be established. So far as acreage is concerned, with sites for business districts, factories and mills, with the outlying districts for residences, there can be no limit to the expansion of Charleston.

"One can readily recognize the probability of Charleston's becoming a large steel-manufacturing center; can easily look forward and suppose that in a few years it will be entitled to the name 'Pittsburg of the South.' This because our facilities are cheapest and best. The supply of fuel is the most potent factor in the upbuilding of a steel center, and in this section the supply is practically unlimited. The question of fuel supply is the first to be considered with reference to building a manufacturing center. It was upon this basis that Birmingham and Sheffield were started on their road to development.

"Another consideration is the matter of ore supply. We are located as close to the ore fields as is Pittsburg; better, in fact, if it should be developed that we need ore in great quantities. The Chesapeake & Ohio Railroad connects us with the seaboard, and the rich Cuban ores can be laid at our doors at a not far distant day at a cost that should enable us to become a factor in the manufacture of steel from the steel bar to the finished article.

"Some large concerns have already found it to their advantage to locate here, and the manufacturing industries can be profitably extended by the securing of plants for the manufacture of files, saws, machine tools, agricultural implements and all the other commodities which the ingenuity of the progressive American workman requires. It is said that there are shortly to come to Charleston a plant containing three open-hearth furnaces, a short bar mill, sheet finishing mill and probably a big saw factory. And I am sure this number will be greatly enlarged when manufacturers now operating in congested districts, largely lacking in the advantages which Charleston pos such an eminent degree, learn of the good things to be found here.

"What better locality could manufacturers desire than one situated on three railroads, with fair prospects for others; on a river navigable the year round; in a district where natural gas is 60 per centcheaper than in other localities; in an enormous coal field, where development has only just begun, and at a saving on cne-third the cost of the Pennsylvania field, and right in the heart of a new, rapidly developing oil field?

"These natural advantages, possessed in such a large degree, should result in a tapid yet systematic growth by Charleston in the immediate future."

The circuit court of Kanawha county has, in the language of the small boy, "knocked the tar" out of the two-centfare law enacted by the Legislature at its session in 1907. The Coal & Coke Railroad, belonging to ex-Senator Henry G. Davis, Senator Stephen B. Elkins and their immediate family and friends, was the first to move against the law. It did so on the ground that it was confiscatory, in that it compelled the road to carry pa engers for two cents a mile when it could not afford to do so. Judge Burdette agreed with the contention of the attorneys of the road and granted an injunction against the officers of the State to keep them from proceeding to enforce the provisions of the law against the railroad.

The Chesapeake & Ohio then sought to have the law declared void, claiming that it was discriminatory, because it excepted from its provisions roads less than 50 miles in length, except where such roads were owned or operated by roads of more than 50 miles' length. The court held that the law, thus discriminating against roads of the same class but of different ownership, was unconstitutional. The State's officers were therefore enjoined from putting the law in effect with respect to the Chesapeake & Ohio.

Then the Virginian sought relief of the same kind, and only a few days ago Judge Burdette granted the injunction prayed for, and the Virginian is now charging three cents a mile.

The Legislature will doubtiess take another turn at the matter when it meets again.

Geo. Byrne.

Southern Investments

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180,000 6 per cent. Industrial Bonds.
190,000 7 per cent. Preferred Stock.
190,000 of Common Stock.
In strongest mill corporations.
Also 100,000 first mortgage real estate loans.
F. C. ABBOTT & CO.,
Charlotte, N. C.

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WM. INGLE, Vice-Prest, and Cashler
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JOHN B. H. DUNN, Asst. Cashler.
Capital, \$1,500,000
Surplus and Profits, -- \$900,000
Deposits, \$12,000,000
Accounts of Banks, Bankers, Corporations and individuals solicited. We invite correspondence.

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Paving Bonds of Municipalities having over 5000 population.

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JOHN SKELTON WILLIAMS, President. FRED'K E. NOLTING, 1st Vice-President. T. K. SANDS, 2d Vice-President and Cashier. H. A. WILLIAMS, Assistant Cashier. L. D. CRENSHAW, Jr., Trust Officer.

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Interstate Trust & Banking Co. NEW ORLEANS

Capital and Surplus Over \$1,000,000

CROSS CREEK COAL COMPANY 6% Gold bonds, total issue \$250,000. All have been disposed of to investors and bankers in different parts of the country. Including Saco, Maine; Boston, Mass.; Rochester, N. Y.; Westfield, Olean, Fredonia and Buffalo, N. Y.; Franklin, Coudersport, Pittsburgh, Smethport, Shamokin and Port Allegany, Fa.; Columbus, Dayton and Springfield, Ohio; Northfork, Welch and Bluefield, W. Va.; Roanoke, Va.; Nashville, Knoxville, Jasper, Chattannoga and South Pittsburg, Tenn.; Atlanta, Ga.; Lowell, Mass; East Orange, N. J., and Washington, D. C., until now there are but \$30,000 of them left. These bonds are first lien on 7000 acres of the best coal properties in Tennessee, and \$75,000 of this money is being spent on an up-to-date coal works with a capacity of about 1000 tons a day. Particulars will be furnished from the office, 1006 Mutual Life Bullding, Buffalo, N. Y. P. S.—A bonus of prefered stock will be given with the bonds.

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FINANCIAL NEWS

The MANUFACTURERS' RECORD invites infor mation about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussion financial subjects bearing upon Southern

Review of the Baltimore Market.

Office MANUFACTURERS' RECORD,

Baltimore, Md., July 28.
Business was rather quiet in the Baltitore stock market during the past week. more stock market during the past week. In the trading United Railways common sold at 12½; do. trust certificates, 12% to 12½; do. incomes, 59 to 58%; do. funding 5s, 85¼ to 85¾; do. do. scrip, 85½ to 86; United 4s, 88 to 88½; Consolidated Gas, Electric Light & Power 4½s, 85 to 85%; Consolidated Gas 4½s, 96 to 97; Seaboard preferred, 28; Seaboard Company first preferred, 76 to 77; do. second preferred, 37; Seaboard 4s, 90¼ to 89%; do. three-37; Seaboard 4s, 90½ to 89½; do. three-year 5s, 99½ to 99¼; do. 10-year 5s, 99½ to 100; Consolidated Cotton Duck, Mt. Vernon-Woodberry Cotton Duck 82 to 81½; G.-B.-S. Brewing 1sts, 45 to 46.

45 to 46, Fidelity & Deposit sold from 155 to 156; Maryland Trust common, 64 to 65; American Bonding, 72 to 70; Maryland Casualty, 100; Mercantile Trust, 145; In-ternational Trust, 140; Fidelity Trust,

ternational Trust, 140; Fidelity Trust, 215.

Other securities were traded in thus: Northern Central Railway stock, 104½ to 104½; Western Maryland, 3½ to 3; Consolidation Coal, 93; Georgia & Alabama Consolidated 5s, 105½; Macon Railway & Light 5s, 96; Norfolk & Portsmouth Traction common, 20½; Atlantic Coast Line of South Carolina 4s, 99; Memphis Street Railway 5s, 98¾ to 99; Newport News & Old Point 5s, 95; Western Maryland 4s, 87; Houston Oil common, 75½ to 8½; Georgia, Carolina & Northern 5s, 106 to 105¾; Baltimore Traction (North Baltimore division) 5s, 113; Baltimore City Passenger 5s, 101½ to 101¾; City & Suburban (Washington) 5s, 104¾; Maryland Electric 5s, 96¾ to 97¼; Baltimore & Harrisburg 1st 5s, 105½; Atlantic Coast Line of Connecticut 5-20s, 91; North Carolina 4s, 1910 coupons, 99¾; Atlantic Coast Line new 4s, certificates, 84½ to 85½; Norfolk Railway & Light 5s, 98½ to 985½; Fairmont Coal 5s, 98 to 97½; Norfolk Street Railway 5s, 110; Carolina Central 4s, 95½; Florda Southern 4s, 93; Alabama Consolidated Coal & Iron 5s, 84; Atlantic Coast Line of Connecticut 4s, ecrtificates, 84: 26; Atlantic Coast Line Consolidated 4s, 96; Atlantic Coast Line of Connecticut 4s, ecrtificates, 82.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended July 28, 1909.

water many account		
Railrond Stocks Par. Atlanta & Charlotte 100 Atlanta & Charlotte 100 Atlanta & Charlotte 100 Atlanta Coast of Conn 100 Georgia Sou & Fla 10 Georgia Sou & Fla 18 16 100 Georgia Sou & Fla 2a Pfd 100 Seaboard Company Common 100 100 100 100 United Rys & Elec Co 50 Western Maryland 50	180 2971/2 33 921/2	315 40 761/2 18 77 121/2
Bank Stocks.		
Citizens' National Bank 10 Commonwealth Bank 50 Drovers & Mechanics' Bank 100 Farmers & Mechanics' Bank 100 First National Bank 100 German-American Bank 100 German Bank 100 Maryland National Bank 20 Maryland National Bank 20 Marchanis' National Bank 100 National Bank of Baltimore 100 National Bank of Commerce 15 National Bank 60 National Bank 100 National Howard Bank 100 National Marine Bank 100 National Marine Bank 100 National Marine Bank 100 National Union Bank 01 National Union Bank 01 National Union Bank 100 Second National Bank 100	13 41 28 122 143	39% 49½ 143 110 170 124 28 161 29 123 145
Trust, Fidelity and Casu-		
alty Stocks.	709/	RO

	111-29		
	290		
Continental Trust	21614	218	
Fidelity & Deposit 50-	155	156	
Fidelity Trust	210	215	
International Trust100		145	
Manuland Connolty 95	100	110	

aryland Casualty. 25 100 110 aryland Trust. 100 64 aryland Trust Pfd. 100 100 106 lercantile Trust & Deposit. 50 145 150 nion Trust. 50 145 150 8. Fidelity & Guaranty. 100 127½ 135 Miscellaneous Stocks.

Ala. Con. Coal & Iron100	25	
Ala. Con. Coal & Iron Pfd100	65	721/2
Con. Cotton Duck Common 50		71/2
Con, Cotton Duck Pfd 50	221/2	241/2
Con. Gas. Elec. Lt. & P. Com 100		40
Con. Gas. Elec. Lt. & P. Pfd100	87	
Consolidation Coal100		93
	21/2	31/4
Georges Creek Coal100	90	95
Mer. & Miners' Trans. Co 100	74	

Wilmington & Weld. Gold 5s, 1935	113	
Street Railway Bonds.		
Atlanta Con. St. Ry, 5s	105	1051
Augusta Ry. & Elec. 5s, 1940 1		***
Balto, City Pass. 5s, 1911		1013
Balto. City Pass. 41/28		1011/
Balto., Sp. Pt. & C. 41/8		95
Balto. Traction 1st 5s, 1929 1		
Balto, Trac. (N. B. Div.) 58, 1942. 1		115
	111	113
Central Ry. Ext. 5s (Balto.), 1932. 1	11	112
Charleston City Ry. 5s, 1923 1		041
Charleston Con. Elec. 5s, 1999		911/
		$\frac{108\%}{105}$
		107
2		97
	95	04
	97	971/
	99	991/4
	93	96
		87
	98%	
	091/2	
United Railways 1st 4s, 1949	881/2	89
United Railways Inc. 4s, 1949	581/2	
United Railways Funding 5s	851/2	86
Miscellaneous Bonds.		
Ala. Con. Coal & Iron 5s		841/2

All. Coll. Coll & Iron ob		- 0
Atlanta Gas 1st 5s, 1947	102	
Baltimore Electric 5s	89%	9
Consolidated Gas 6s, 1910	101%	
Consolidated Gas 5s, 1939	1111/4	11
Consolidated Gas 41/28	96	9
Consolidated Gas 41/2s Cfs., 1913	96	9
Con. Gas. Elec. Lt. & P. 41/28	853/4	8
Fairmont Coal 5s	97	9
GBS. Brewing 1st 4s	45%	4
BBS. Brewing Income 48	14	1
Maryland Telephone 58	99	9
Mt. Vernon-Woodb'y Cot. Duck 5s.	811/2	8
United Elec. Lt. & P. 41/28	93	9
-		

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by Hugh Mac Rae & Co., Wilmington, N. C., for Week Ending July 26.

ıl l	week maing out, ac.	
		Ask
y	Abbeville Cotton Mills, S. C	71
٠	Aiken Mfg. Co. (S. C.)	80
	Alken Mrg. Co. (S. C.)	
_	Anderson Cotton Mills (S. C.) 50	58
t	Arkweight Mille (S C)	100
t	Angusta Fastony (Ca)	70
1	Augusta Factory (Ga.)	120
- 1	Avondale Mills (Ala.)	
- 1	Belton Mills (S. C.) 112	121
	BELLED MARK. C.U. (VML.)	114
- 1	Brandon Mills (S. C.) 80	100
- 1	Cabarrus Cotton Mills (N. C.) 120	130
- 1	Chadwick-Hoskins Mfg. Co. (N.C.). 100	
a I	Cabarrus Cotton Mills (N. C.) 120 Chadwick-Hoskins Mfg. Co. (N.C.). 100 Chadwick-Hoskins Mfg. Co. (N. C.)	
- 1	Pfd 100	***
- 1	Chiquola Mfg. Co. (8, C.) 140	
. 1	Clifton Mfg. Co. (S. C.) 105	
. [Clifton Mfg. Co. (S. C.) Pfd 99	101
- 1	Clifton Mig. Co. (S. C.) Fig 99	101
- 1	Clinton Cotton Mills (S. C.) 102	98
- 1	Columbus Mfg. Co. (Ga.) 93	
, 1	Courtenay Mfg. Co. (S. C.) 97	100
2	Dallas Mfg. Co. (Ala.) 97	105
- 1	Darlington Mfg. Co. (S. C.) 721/2	75
- 1	Dravton Mills (Ala.)	100
6	Eagle & Phenix Mills (Ga.)	135
à I	Pfd. 100 Chiquola Mfg. Co. (S. C.) 140 Clifton Mfg. Co. (S. C.) 105 Clifton Mfg. Co. (S. C.) 106 Clifton Cotton Mills (S. C.) 102 Columbus Mfg. Co. (Ga.) 93 Courtenay Mfg. Co. (S. C.) 97 Durlias Mfg. Co. (Ala.) 97 Darlington Mfg. Co. (S. C.) 72½ Drayton Mills (Ala.) 126 Eagle & Phenix Mills (Ga.) 158 Easley Cotton Mills (S. C.) 158	162
1	Easiley Cotton Mills (S. C.). 158 Enoree Mfg. Co. (S. C.). 58 Enoree Mfg. Co. (S. C.) Pfd. 92 Enterprise Mfg. Co. (Ga.). 80 Exposition Cotton Mills (Ga.)	162 65
. 1	Enorgo Mfg Co (S C) Pfd 92	98
6	Enterprise Mfg Co (Ga) 80	90
- 1	Expedition Cotton Mille (Ca.)	240
. 1	Gaffney Mfg. Co. (S. C.)	77
é I	Gainesville Cotton Mills (Ga.) 55	65
	Chamber Cot Mills (S. C.) 1st Ded	50
- 1	Grandy Cot. Mills (S. C.) 18t Flu	165
- 1	Gaffney Mfg. Co. (S. C.)	67
- 1	Greenwood Cotton Mills (S. C.)	
- 1	Grendel Mills (S. C.)	120
1	Henrietta Mills (N. C.)	175
- 1	King Mfg. Co., John P. (Ga.) 95	100
- 1	Lancaster Cotton Mills (S. C.) 125	146
- 1	Lancaster Cotton Mills Pid 95	98
-	Langley Mfg. Co. (S. C.) 96	100
- 6	Laurens Cotton Mills (S. C.) 120	135
1	Limestone Mills (S. C.) 140	150
- 1	Lockhart Mills (S. C.) 78	90
- 1	Lockhart Mills Pfd 98	100
-1	Loray Mills (N. C.) Pfd 95	97
ı	Marlboro Cotton Mills (S. C.) 83	85
1	Mayo Mills (N. C.)	185
-1	Mills Mfg. Co. (8, C.)	105
-1	Mills Mfg. Co. (8, C.) Pfd	109
-1	Monaghan Mills (S. C.) 118	
- 1	Monarch Cotton Mills (S. C.) 100	110
-1	Newborry Cotton Mills (S. C.) 120	140
- 8	Norris Cotton Mills (8 C) 199	121
1	Olympia Cot Mills (S.C.) 1st Pfd 78	87
	Opengolyng Mfg Co (SC) let Pfd 80	98
ı	Orr Cotton Mils (S. C.) 1631/4	104
1	Decelet Mer Co (S C)	105
1	Pacolet Mig. Co. (S. C.)	100
1	Delega Mig. Co. (S. C.) Fid	160
1	Peizer Mig. Co. (S. C.)	175
1	Pledmont Mig. Co. (S. C.)	
	King Mfg. Co., John F. (Ga.) 381 Lancaster Cotton Mills (S. C.) 125 Lancaster Cotton Mills (Pfd. 95 Langley Mfg. Co. (S. C.) 96 Laurens Cotton Mills (S. C.) 120 Limestone Mills (S. C.) 120 Limestone Mills (S. C.) 120 Lockhart Mills (S. C.) 120 Mayo Mills (N. C.) 125 Marlboro Cotton Mills (S. C.) 126 Mills Mfg. Co. (S. C.) 97 Mills Mfg. Co. (S. C.) 97 Mills Mfg. Co. (S. C.) 120 Newberry Cotton Mills (S. C.) 120 Norris Cotton Mills (S. C.) 120 Norris Cotton Mills (S. C.) 120 Olympia Cot. Mills (S. C.) 120 Olympia Cot. Mills (S. C.) 120 Olympia Cot. Mills (S. C.) 120 Pacolet Mfg. Co. (S. C.) 127 Pacolet Mfg. Co. (S. C.) 127 Pacolet Mfg. Co. (S. C.) 127 Pacolet Mfg. Co. (S. C.) 172 Poe Manufacturing Co. (S. C.) 150 Richland Cot. Mills (S. C.) 172 Poe Manufacturing Co. (S. C.) 150 Richland Cot. Mills (S. C.) 150 Richland Cot. Mills (S. C.) 100 Ronnoke Mills (N. C.) 100	155
1	Richiand Cot. Mills (S.C.) 1st Pfd. 50	10-
	Raleigh Cotton Mills (N. C.) 100 Roanoke Mills (N. C.)	105
1	Roanoke Mills (N. C.)	160
		130
1	Sibley Mfg. Co. (Ga.) 621/2	65
1	Spartan Mills (S. C.) 130	140
	Shaon Mills (S. C.) Shibley Mfg. Co. (Ga.) 62½	100
1	Tucapau Mills (S. C.) 250	
	Trion Mfg. Co. (Ga.)	140

Union-Buffalo Mils (S.C.) 1st Pfd.	64	67
Victor Mfg. Co. (S. C.)		127
Warren Mfg. Co. (S. C.)		96
Warren Mfg. Co. (S. C.) Pfd		
Washington Mills (Va.)	28	30
Washington Mills (Va.) Pfd	106	109
Whitney Mfg. Co. (S. C.)		140
Williamston Mills (S. C.)	112	116
Wiscassett Mills (N. C.)	125	135
Woodruff Cotton Mills (S. C.)		135
Woodside Cotton Mills (S. C.)	96	100
Woodside Cot. Mills (S. C.) Pfd	95	96
-		

Bank Statements.

The International Trust Co. of Maryland at Baltimore reports at close of business June 30, 1909, investments, \$2.632,907; loans secured, \$1,444,166; cash on hand and in banks, \$257,169; capital stock, \$1,500,000; surplus, \$1,000,-000; undivided profits, \$96,617; deposits, \$2,133,974; total assets, \$4,730,592. Douglas H. Gordon is president; Summerfield Baldwin and Samuel C. Rowland, vice-presidents; Chas. D. Fenhagen, secre tary and treasurer, and Walter D. Focke, assistant secretary and assistant treasurer.

FINANCIAL CORPORATIONS.

ALABAMA.

Jasper, Ala.-The Pickens County Bank has begun business with directors thus John H. Carter, president; R. L. McClain, vice-president; H. B. Crawford, cashier; Sam Tate, John W. Freeman, J. M. Eaton and H. K. Wood.

Scottsboro, Ala.-Official: The J. C. Jaco Banking Co. will probably be organized about October 1 to December 1 and will be a pri-vate bank, under the management of J. C. Jacobs, E. P. Jacobs, N. E. Jacobs and Annie Coffey.

ARKANSAS.

Little Rock, Ark.—The Arkansas Life Insurance Co. is reported organized with \$290,000 capital. Directors: W. W. Hurst, president; C. Strickland, secretary and treasurer; George R. Stanford, vice-president, and R. H. Wolfe.

FLORIDA.

Crescent City, Fla.—A bank is reported or-ganized with \$15,000 capital; K. Barson of Crescent City, president; Herbert B. Race of Jacksonville, vice-president, and C. K. Jones of Valdosta, Ga., cashier,

GEORGIA.

Davidsboro, Ga.-The Merchants and Farm Davidsboro, Ga.—The Merchants and Farmers' Bank has organized by electing directors thus: John D. Walker, president; W. C. Wilson, vice-president; S. J. Taylor, Jr., cashier; A. Y. H. Jordan, W. J. Henderson, Dr. W. V. Walden, O. H. P. Beall, J. L. Hattaway and Joseph W. Aldred.

Dacula, Ga.—Official: The Dacula Bank-ing Co. incorporated; capital \$25,000, paid in; A. M. Wilson, president; W. T. Hinton, vice-president; E. S. Hogan, R. M. Stanleye, G. W. Sikes, S. E. Pharr and J. M. Wilson.

Hephizibah, Ga.-A new bank is reported ng organized.

Savannah, Ga.—The Georgia State Savings Association has filed its charter; capital \$25,000. Incorporators: B. H. Levy, Edward W. Bell, Julian Schley, H. E. Dresson, C. G. Anderson, Jr., W. B. Stillwell, J. F. Bucker, W. K. Bell, G. W. Tiedeman and Fred

MISSISSIPPI.

Water Valley, Miss.—The People's Bank of Water Valley is reported organized and ex-pects to begin business about September 1; directors, F. H. Smith, J. G. Neudorfer, G. W. Rayburn, J. M. Walker, J. T. Ware, J. I.

Vaughn, T. L. Boydston, J. W. Mackey, G. W. Armstrong, J. R. McClellan, M. C. Knox, T. O. Gore, John W. Tarver, E. W. Hartwell, Everette Cock, E. T. Block, C. T. Robinson and W. M. Hendricks.

MISSOURI.

St. Louis, Mo.—The North St. Louis Trust Co. is being organized with \$100,000 capital and \$10,000 surplus. Among those interested are Henry H. Oberschelp, Missouri Trust Bidg., St. Louis, and A. W. Pauley.

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Richmond, Va., July 13, 1909.

The Board of Directors of VIRGINIA-CAROLINA CHEMICAL COMPANY have this day declared a dividend of Three Per Cent. on the common stock of the Company, payable August 20, 1909, to stockholders of record at 3 P. M. on August 5, 1909, and the transfer books for the common stock will be closed from 3 P. M. on August 5, 1909, to 10 A. M. on August 20, 1909. Checks will be mailed.

S. W. TRAVERS, Treas.

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FIRST MORTGAGE 4% BONDS

The overdue semi-annual Interest Coupons on these bonds, due

April 1st, 1908, October 1st, 1908, April 1st, 1909

WILL BE CASHED upon depositing them and the bonds under the Adjustment Plan of July 1st, 1909, with any of the following depositaries:

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Copies of the above mentioned Plan of Adjustment may be obtained from any one of the depositaries, or from the undersigned.

D. C. PORTEOUS, Secretary of Reorganization Committee 24 BROAD STREET, NEW YORK

NORTH CAROLINA.

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Alderson, N. C.—The Alderson National Eank has organized by electing T. H. Jar-rett, president; John Hinchman, vice-presi-dent; O. D., Massey, cashier, and W. W. Stevens, assistant cashier; directors, T. H. Jarrett, John Hinchman, O. D. Massey, E. H. Campbell and Mark L. Jarrett.

Charlotte, N. C.—A building and loan asso-ciation is reported being organized by Der-mot Shemwell, E. B. Craven, S. E. Williams, James Adderton and G. W. Montcastle,

Graham, N. C.-The Graham Real Estate, Loan & Insurance Co., capital \$25,000, incorporated by Jacob Long and others.

Matthews, N. C.—The Bank of Matthews, recently organized, has elected Robert L. Steele of Rockingham, president, and B. D. Funderbunk, vice-president.

OKLAHOMA.

Hugo, Okla,-The Hugo Loan & Investment Co. incorporated with \$50,000 capital. Directors: J. F. McRoynelds and W. R. Wood of Paris, Texas; G. W. Dodd of Grant, Jesse W. Davis, J. H. Jackson, C. L. Webb and C. G. Shell of Hugo.

Morris, Okla.-Chartered: The First State Pank of Morris; capital \$10,000; incorpora-tors, J. B. Jones, Eugene M. Kerr and W. B. Fundy, all of Muskogee. The new bank will take over the present State Bank of Morris.

Nowata, Okla.—Official: The Producers' State Bank incorporated; capital \$50,000; di-Nowata, Okla.-Official: rectors, W. A. Chase, president; A. Camplell, vice-president; F. B. Reynolds, cashier; E. W. Moore, W. J. Kirkwood, Wm. Moyar and J. L. Kiskaddon. A. J. Reynolds is assistant cashler.

Orr, Okla.-Official: The Farmers' State Guaranty Bank of Orr, Okla., chartered; capital \$10,000; directors, J. D. Batson, John G. Butler and Leo Hughes.

Shattuck, Okla.—Chartered: The Shattuck State Bank; capital \$30,000; incorporators, J. T. Hastings, M. O. Murphy, W. E. Stuart, J. C. Stuart and C. E. Biglow, all of Wood-

ward.

Thomas, Okla. — Official: The Farmers' State Guaranty Bank incorporated; capital \$25,000. Incorporators: J. S. Hustin, president, Thomas; E. E. Cressler, Okeeme, Okla., and J. W. Cornell of Thomas.

SOUTH CAROLINA.

Camden, S. C.—The Camden Loan & Realty Co. has been organized with \$10,000 capital; directors, C. J. Shannon, Jr., president; D. R. Williams, vice-president; John T. Mackey, secretary and treasurer; L. A. Wittkowsky, attorney; W. R. Hough, Geo. T. Little, W. J. Dunn, M. H. Heyman and L. L.

Greenville, S. C .- The Southern Mortgage Co. of Greenville has been incorporated with \$25,000 capital by H. H. Harris and Thomas

TENNESSEE.

Big Sandy, Tenn.—Chartered: The Farmers' Bank of Big Sandy; capital \$1500; incorporators, J. M. Moses, J. B. Cox, T. A. Rushing, J. W. Odom, E. H. Dowdy, S. F. Baker, W. R. Cooper, G. W. E. Herrin, R. I. Hargis and John Askew.

Highland Park, P. O. Chattanooga, Tenn.—
A new bank capitalized at \$15,000 is being organized by Lawrence Parkhurst, W. H. McCarroll, J. A. Wheeler, F. W. Owens, F. L. Cessau, James B. Dawson, B. M. Jones, J. T. Edwards, Beechmont; E. H. Smith, New Castle; Chilton-Guthrie Trunk & Bag Manufacturing Co., N. A. Richardson, Frank E. Bayens, N. C. Cureton, Louisville; S. E. Funk ens, N. C. Cureto and R. T. Baker.

Huntingdon, Tenn.-Reported that a new bank, organized with \$25,000 capital, will begin business about December 1.

Mt. Pleasant, Tenn.—The Farmers and Merchants' Bank will, it is reported, soon begin business; capital \$25,000; incorporators, C. A. Brownlow, E. M. Kindel, J. T. Jenkins, W. A. Kittrell, M. J. Orr, James H. Ward, J. P. Warnock and Ed. Orr. Cecil Brownlow will be explored by the control of will be cashier, and H. G. Kittrell, assistant

Trenton, Tenn.-The Southern Credit Co. Trenton, Tenn.—The Southern Credit Co., capital \$15,000, has been incorporated by A. J. Elwood, R. R. Boone, M. H. Holmes, Trenton; C. R. Wade, C. T. Arnold, G. W. Reed, Henry Flowers, Kenton, and J. L. Haguewood, Rutherford.

TEXAS.

Barry, Texas.—The First State Bank of Barry has filed its charter; capital \$10,000; stockholders, F. N. Dram, Corsicana; T. C. Boswell, T. A. Hutchisson and W. D. Powell, Barry, and J. L. Marshall, Dram.

DeKalb, Texas. — Chartered: The First State Bank; capital \$25,000. Incorporators: G. W. Blakeney, T. J. Record, J. H. Simms and J. W. Clark.

Donna, Texas .- A State bank is reported elng organized.

Eastland, Texas.—Official: The Eastland County Land & Abstract Co. chartered; capital \$15,000; A. H. Johnson, president, and A. B. Johnson, vice-president, both at Cisco, Texas, and C. U. Connellee, secretary and treasurer, Eastland, Texas. B. Johnson.

Frost, Texas.-The Citizens' State Bank of Frost, Texas.—The Citizens' State Bank of Frost will, it is stated, begin business about August 15 with R. J. Sanders, president; L. A. Morgan, vice-president; J. R. Slay, vice-president, and J. W. Blake, cashier.

Hatchell, Texas. The First State Bank of Hatchell; capital \$10,000. Incorporators: J. R. Holliday, J. W. Murray of Hatchell, R. G. Erwin of Ballinger.

Marfa, Texas.—Chartered: The Marfa State Bank; capital \$10,000; incorporators, J. E. Nunn, T. H. Brown, Jr., of Fort Davis

And T. H. Wilson of Marfa.

Post City, Texas.—The First National

Bank of Post City has been authorized to begin business; capital \$50,000. II. H. Herb is

president; W. O. Stevens, cashier.

VIRGINIA.

Basic, City, Va.-Chartered: The People's Southern Cent Savings Bank; capital \$10,000 to \$50,000; D. W. Baker, president; C. H. Leach, vice-president; Eugene Tyree, treasurer, and Ernest Johnson, secretary and

Danville, Va.-The Danville Savings, Loan & Investment Co. incorporated; capital \$2000 to \$10,000; W. H. Jones, president; A. T. Pritchett, vice-president; W. P. Allen, secretary and treasurer.

Mt. Ida, Va.—The Bank of Potomac is reported being organized with \$25,000 capital.

Rapidan, Va.-The State Bank of Rapidan has been incorporated with from \$10,000 to \$25,000 capital; H. T. Holladay, Jr., president; F. E. Garnett, vice-president; G. W. Peyton, secretary and cashier.

Suffolk, Va.—Official: The Nansemond Building Association incorporated; capital \$150,000; W. B. Ferguson, president; R. L. Brewer, financial secretary; J. E. B. Holladey, attorney; A. W. Woolford, W. S. Cross, Walter Jordan and W. B. Ferguson, directors.

WEST VIRGINIA.

Huntington, W. Va.—Approved: The American National Bank of Huntington; capital \$100,000; organizers, H. C. Harvey, H. S. Crobley, R. L. Hutchinson, J. T. Graham and L. A. Daniel.

Kenova, W. Va.-The Kenova Banking & Savings Co. expects to begin business August 1 with J. S. Miller, president; A. Jackson, vice-president, and K. B. Cecil, cashier.

NEW SECURITIES.

ALABAMA.

Gadsden, Ala.-Steiner Bros. of Birmingham have purchased \$40,000 of 5 per cent. 30year refunding sewer bonds.

ARKANSAS.

Russellville, Ark.—The Mercantile Trust Co. of Little Rock is said to be the purchaser of the \$18,000 of sidewalk bonds, recently reported sold.

Van Buren, Ark .- A. M. Morow, Pine Bluff, is reported to have purchased at par in payment for work \$209,600 of 6 per cent. 20-30-year Crawford county levee bonds.

FLORIDA.

Key West, Fla .- An election is to be held within 60 days to vote on paving bonds.

GEORGIA.

Allapaha, Ga.—Bids will be received until noon July 31 by J. V. Dorminey, Mayor, for \$8000 of 5 per cent. 30-year school-building

Brunswick, Ga. — Reported that Glynn county will issue \$100,000 of road bonds.

Commerce, Ga.-Reported that bids will be elved until August 15 for \$8000 of 5 per

Columbus, Ga.—An election is to be held August 19 to vote on \$75,000 of 4½ per cent. hospital bonds. M. M. Moore is clerk of Council.

Newnan, Ga.—J. H. Hilsman & Co. of Atlanta has been awarded at \$533.33 and accrued interest \$16,000 of 5 per cent. school

Thomaston, Ga.—An election is to be held August 23 to vote on \$15,000 of 6 per cent. bonds to rebuild R. E. Lee Institute building and auditorium.

KENTUCKY.

Fullerton, Ky.-Voted: \$3500 of school-uliding bonds.

Newport, Ky.-C. A. Keslar, City Auditor,

will receive bids until 5 P. M. July 30 for

Denham Springs, La.—The Bank of Denham Springs, acting as fiscal agent for Denham Springs High School District, is reported to be offering \$7500 of 5 per cent.

Patterson, La.—Reported that Castel & Trefny of New Orleans have purchased at private sale \$30,000 of 5 per cent. waterworks bonds.

Tallulah, La.—September 14 an election is to be held to vote on \$40,000 of Canal Bayou drainage district bonds

MISSISSIPPI.

Leakesville, Miss.—Reported that plans are being made to issue \$7000 of school bonds.

West Point, Miss.—J. L. Young, City Clerk, will receive bids until 6 P. M. August 9 for \$20,000 of street improvement and \$7000 of school 5 per cent. 20-year bonds.

MISSOURI.

Kansas City, Mo.-Defeated: \$4,125,000 of public improvement bonds.

Maryville, Mo. - Nodaway county is re-orted to be considering an issue of \$100,000 of bridge bonds.

Monett, Mo .- Bids will be received by Perry Short, Mayor, until 8 P. M. July 27 for \$35,000 of 4½ per cent. 5-20-year electric-light bonds.

Springfield, Mo. - Local investors are re rted to have purchased \$30,000 of c

St. Louis, Mo.—Reported that on Septemer 17 the city will sell \$4,700,000 of municipal improvement bonds.

Webb City, Mo.-Defeated: \$8500 of sewer

NORTH CAROLINA.

Albemarle, N. C.-July 27 city will vote on water, light, sewer, street and school bonds to the amount of \$67,000.

Deep Creek, N. C.-August 21 an election will be held to vote on \$20,000 of bonds in aid of the Statesville Air Line Railroad.

Forbush, N. C.—An election will be held August 21 to vote on \$5000 of bonds in aid of Statesville Air Line Railroad.

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PH LADELPHIA

Liberty, N. C.—An issue of \$40,000 of bonds In aid of the Statesville Air Line Railroad will be voted on August 21.

Monroe, N. C.-The Security Trust Co. of Spartanburg has been awarded at \$1500 pre-mium \$25,000 of bonds for repairs to water and light plant and to refund indebtedn

Raleigh, N. C.—The \$500,000 of State hos-ital bonds have been validated.

Salisbury, N. C.—Reported that an election to be held to vote on \$125,000 of railroadaid bonds.

OKLAHOMA.

Ardmore, Okla.-The election to be held in Carter county August 17 is for the purpose of voting on \$125,000 of courthouse bonds. Wm. B. Frame is County Clerk.

Caddo, Okla.—Bids will be received until 8 P. M. August 2 for \$55,000 of 5 per cent, 25-year water-works bonds. Address H. G. Huffman, City Clerk,

Chandler, Okla.-The Oklahoma Bond Trust Co. Is reported to have purchased \$25,-000 of sewer bonds at par and accrued in-

Cleveland, Okla,-Bids will be received by J. M. Crady, deputy City Clerk, until 6 P. M. August 2 for \$15,000 of 6 per cent. 20-year bonds to take up warrant indebtedness.

Minco, Okla. - Voted: \$10,000 of waterworks bonds

Norman, Okla.—A. J. McMahon of Okla-oma City is reported to have been awarded \$10,000 of 5 per cent. 25-year school-equipment

Mounds, Okla.-A. B. Leach & Co. of Chicago is reported to have been awarded at 102.05 and interest \$75,000 of 5 per cent. Creek county high-school bonds.

Mounds, Okla.—D. B. Welty of Oklahoma City is reported to have purchased at par \$20,000 of 5 per cent. 20-year water-works honds

Tulsa, Okla,-Approved: \$24,000 of funding cently purchased by Spitzer & Co. of

Verden, Okla -An issue of \$13,000 of schoolbuilding bonds is reported under considera-

Wagoner, Okla,-Reported that an election is to be held in August to vote on \$200,000 of water-works, light, City Hall and funding

Wilburton, Okla.-Voted: \$50,000 of water orks purchase and improvement bonds and \$25,000 of sewer bonds.

SOUTH CAROLINA.

Gaffney, S. C .- An issue of \$125,000 of bonds been declared valid by the Supreme

Newberry, S. C.—Reported that Newberry county will vote July 28 on \$300,000 of road bonds.

Spartanburg, S. C.—Reported that an elec-tion is to be held in Spartanburg county August 24 to vote on \$400,000 of road improve-

Blountville, Tenn.—Reported that \$200,000 f Sullivan county road bonds will soon be offered for sale.

Chattanooga, Tenn.-Reported that the \$25, 000 of 6 per cent, water bonds of Mission Ridge Taxing District will not be sold, a con tract having been made with the local water company to build and operate a plant.

Jackson, Tenn...Bids will be received until toon July 31 by F. E. Howard, City Auditor, or \$10,000 of 5 per cent. city improvement and \$5400 of district improvement bonds.

Hennings, Tenn.—Bids will be received until 10 A. M. July 30 by J. R. Gregory, Town Treasurer, for \$15,000 of 5 per cent. 10-30-year bool bonds

Jellico, Tenn.-Voted: \$90,000 of public improvement bonds

Morristown, Tenn.—Bids will be received until 10 A. M. August 23 for \$200,000 of 5 per cent. 20-year Hamblen county turnpike bonds. Address J. N. Fisher, chairman Hamblen County Pike Commissioners.

Ooltewah, Tenn. — Bids will be received until noon August 23 by T. H. Stokes, secretary selling commissioners, for \$10,000 of 5 per cent. 20-year James county high-school

TEXAS.

Albany, Texas.-Approved: \$20,000 of 5 per ent. school bonds.

Anna, Texas. — J. E. Adams, secretary School Board, is offering for sale \$14,000 of it per cent. 40-year bonds of Anna Independent ool District

Anson, Texas.-Approved: \$7500 of 5 per ent. bonds of Jones county school district

Anson, Texas.—Approved: \$28,000 of 6 per ent. water-works bonds.

Austin, Texas. — The State Penitentiary Board is reported to be preparing to issue \$200,000 of 5 per cent. bonds, \$150,000 being redemption and the remaining \$50,000 for completion of the State railroad into Pales-

Austin Texas -The State Board of Education has purchas
Wood county bonds.

Beaumont, Texas.—Reported that the elec-tion to vote on \$100,000 of school and 75,000 of sewer-extension bonds will be held Au-

Blooming Grove, Texas .- An issue of \$14, 000 of 5 per cent. 15-30-year school-building bonds will be sold on August 10.

Boerne, Texas.-Voted: \$7000 of Kendall inty courthouse bonds

Bryan, Texas.—The election to vote on \$10,000 of 5 per cent. 50-year city-hall, fire-station and opera-house bonds is to be held August 10.

Coffeyville, Tex s.-Reported that an tion will be held August 10 to vote on \$30,000 of school bonds.

Del Rio, Texas.-The \$30,000 of 5 per cent. 10-40-year school-building bonds were pur-chased by C. H. Coffin of Chicago at \$251

Garza, Texas.-Approved: \$4000 of school

Gustine Tevas -Rids will be received un Gustine, Teass.—Bids will be received un-til noon August 15 by W. M. Scott, secretary Board of Education, for \$8000 of 5 per cent. 10-40-year school-building bonds.

Hereford, Texas.-Approved: \$25,000 of 5 er cent. water-works bonds.

Houston, Texas.—Approved: \$200,000 of 5 er cent. 40-year Harris county drainage onds of district No. 2.

Jacksonville, Texas.-Official: \$25,000 of 5 er cent. 10-40-year bonds of Jacksonville in-ependent school district will soon be issued. E. McFarland is secretary board of trus-

Harper, Texas.-Voted: \$1400 of 5 per cent. year school-building bonds

Johnson City, Texas .- Approved: \$6000 of ! 40-year bonds of school-district

Kosse, Texas.-Approved: \$10,000 of 5 per

Lexington, Texas.-Voted: \$10,000 of school

Lillian, Texas.—Reports state that all bids eccived July 15 for the \$6000 of 5 per cent. 10-30-year school-building bonds were rejected.

Longview, Texas.-Approved: \$40,000 of 5 er cent, school bonds.

Midland, Texas.—Approved: \$20,000 of 5 er cent. 20-40-year school bonds.

anah, Texas.-August 11 city will vote n \$30,000 of water-works-extension bonds.

Seymour, Texas.-J. H. Caussey & Co. Is eported to have purchased \$35,000 of 5 per ent. 20-40-year water-works and sewer bonds

Venus, Texas.-Bids will be received by B Kelly, president Board of Trustes, unti P. M. July 31 for \$20,000 of 5 per cent

Winnsboro, Texas.-Voted: \$18,000 of water vorks bonds.

WEST VIRGINIA.

Kenova, W. Va.-Edmund Seymour & Co. t New York are said to be the purchasers of the \$40,000 of 5 per cent. 15-30-year paving bonds recently reported sold.

At Anna, Texas, bids will be received for \$14,000 of 5 per cent. 40-year Anna Independent School District bonds. Further particulars will be found in the advertising columns.

At Ooltewah, Tenn., bids will be received until noon August 23 for \$10,000 of 5 per cent.
20-year James county high-school bonds.
Further particulars will be found in the advertising columns.

At Lynchburg, Va., bids until noon August 16 for \$400,000 of 4 per 30-year public-improvement cent. 30-year public-improvement bonds. Further particulars will be found in the advertising columns.

FINANCIAL NOTES.

The Morristown Bank & Trust Co., Morris fown, Tenn., it is reported, will increase its capital \$25,000.

The Porter State Bank of Porter, Okla., is ported to have increased its capital from \$10,000 to \$15,000.

The Citizens' National Bank of Frederick. Md., has occupied its new building at Market and Patrick streets

The Bartlett National Bank of Bartlett. Texas, is reported to have increased its capital from \$35,000 to \$70,000.

The Bank of Sevierville at Sevierville, Tenn., is reported to have increased its capi-tal from \$40,000 to \$50,060. The First National Bank of Hendersonville.

according to a report, will increase its capital from \$50,000 to \$100,000, The Great American Life Insurance Co. and the International Life Insurance Co. are reported consolidated under the title of the International Life Insurance Co. of St. Louis, Mo., with a combined capital and surplus of more than \$1,500,000. E. Massey Wilson is president.

A letter to the Manufacturers' Record says that the Lorene Cotton-Oil Mills, Mooresville, N. C., will offer for sale \$25,000 of 10-year per cent. bonds.

The Dixie Fire Insurance Co. of Gree boro, N. C., is reported to have absorbed the North State Fire Insurance Co. of the same

Reported that the Bank of Lilesville at Lilesville, N. C., is to be converted into a na-tional bank and the capital increased from \$10,000 to \$25,000.

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The First National Bank of Hendersonville N. C., it is reported, has increased its capital from \$50,000 to \$100,000 and has taken possesion of its new building.

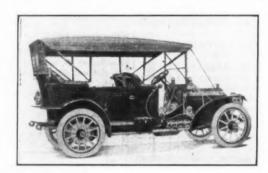
Announcement is made that the overducoupons on Seaboard Air Line Railway first mortgage bonds will be paid upon depositing them and the bonds under the adjustment plan with either the Morton Trust Co. of New York, American Trust Co. of Boston, Continental Trust Co. of Baltimore or the Bank of Richmond, Richmond, Va.

A condensed statement of 446 banks and bank and trust companies in Texas at close pank and trust companies in Texas at close of business June 23 shows: Loans, \$31,206,-783; due from banks, \$12,081,880; cash items, currency and specie, \$4,140,284; capital stock paid in, \$13,078,500; surplus fund, \$1,087,591; undivided profits, \$1,192,463; due to other banks, \$3,969,005; total deposits, \$30,485,734; total resources, \$52,739,360.

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Public Road

Staunton, Va., June 26, 1909.

Bids will be received at the office of the Clerk of the Circuit Court until Monday, August 23, 1909, at 12 o'clock noon, for the construction of about 4½ miles of macadam road in Augusta county (Greenville road). Plans and specifications on file at the Clerk's office in the city of Staunton and at the office of the State Highway Commissioner at Richmond, Va. Specifications furnished on application to the State Highway Commissioner. A certified check for \$200 to accompany each bid. An engineer will be at the Clerk's office in Staunton on Saturday, August 14, at 9 o'clock A. M., to go over the ground with prospective bidders. The right is reserved to reject any and all bids.

BOARD OF SUPERVISORS
FOR AUGUSTA COUNTY.

By Harry Burnett, Clerk.

Proposals Wanted

Proposals Wanted

DEPARTMENT OF PUBLIC WORKS.
AUGUSTA, GA., July 23, 1909.
Sealed proposals will be received by the Canal and River Commission of Angustaida., until 12 M. Tuesday, August 17, 1909. for furnishing all material, tools and laborand excavating a drainage canal approximately three and one-half miles long, thirty leet wide and six feet deep.
A certified check for five hundred dollars (3509) must be deposited with each bid as a tuarantee of good faith.
The Canal and River Commission reserves the right to reject any or all bids.
F. B. POPE, NISBET WINGFIELD.
Chairman. Chief Engineer.

BARGAINS IN MACHINERY AND SUPPLIES FOR SALE

One 10 H. F. Serve condition.

one 42"x16" Lathe.
One Planer, 33"x33"x5', single head.
All the above in first-class condition, and we offer these very cheap for quick sale.

THE CLEVELAND GALVANIZING WORKS CO.,

Cleveland, Ohio.

Refrigerating Machine FOR SALE

ONE 25-TON HEALY REFRIGERATING MACHINE.
Operated only 9 months. Condition guaran-CLYDE MACHINE WORKS COMPANY,

PUBLIC

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GOVERNMENT PROPOSALS

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PROPOSALS FOR ELECTRICAL MATERIAL, including Fixtures, Fittings, Batteries, Cable, Wire, Line Material, Lineman's Tools, Hardware, Mica, Soldering Material, Insulating Varnish, Conduit, Molding, Rubber Gloves, Tape, etc. Sealed proposals will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., August 90, 1809, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this Circular (No. 526) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State street, New York city; 55 National Realty Building, New Orleans, La., and 1086 North Point street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburg, Pa.; Boston, Mass.; Buffalo, N. Y. (Leveland, Ohio; Cincinnati, Ohio; Chicago, III.; St. Louis, Mo.; Detroit, Mich.; Miwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Texas; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, III., and Chamber of Commerce and Board of Trade, Tacoma, Wash. F. C. Boggs, Captala, Corps of Engineers, U. S. A., General Purchasing Officer.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 22, 1998.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 31st day of August, 1909, and then opened for the construction, excepting mechanical equipment and interior finish, of the U. S. Postoffice and Courthouse at New Orleans, La., in accordance with the drawings and specifications, copies of which may be had at this office, or at the office of the Architects, Messrs. Hale & Rogers, 11 East 24th street, New York, N. Y., after July 25, 1909, at the discretion of the Supervising Architect. Applications must be accompanied by a certified check for \$259, which will be held at this office until the return of the drawings and specification. JAMES KNOX TAYLOR, Supervising Architect.

DEPARTMENT OF THE INTERIOR, Washington, D. C., July 17, 1809.—Sealed proposals in duplicate will be received at the Department until 2 o'clock P. M. on Tuesday, August 17, 1809. for remodeling the boiler plant at the Government Hospital for the Insane, at Washington, D. C., in accordance with drawings and specifications, copies of which, with form of proposal, may be hed on application at the Department. The right is reserved to reject any or all bids or waive technical defects, to accept one part and reject the other, as the Interests of the Government may require. Proposals must be securely enveloped and plainly marked "Proposals for Remodeling Boiler Plant Government Hospital for the Insane" and be addressed to the Secretary of the Interior. FRANK PIERCE, Acting Secretary.

PROPOSALS FOR WATER AND SEWER System.—Office of the Quartermaster, 416 Hibernia Bank Building, New Orleans, La., July 1, 1909. Sealed proposals in triplicate for the construction of a water and sewer system at Fort St. Philip, La., including steel tank and trestle and concrete reservoir, will be received here until 12 M. August 2, 1909, and then opened. Information, plans and specifications furnished on application. Envelopes containing proposals should be indorsed "Proposals for Water and Sewer System at Ft. St. Philip, La.," and addressed to LOUIS F. GARRARD, JR., Captain and Q. M.

POSTOFFICE DEPARTMENT, Washington, D. C., June 9, 1909. Sealed proposals will be received at the office of the Purchasing Agent of this Department until 2 o'clock P. M. August 2, 1909, for furnishing Postal Cards for the postal service. Proposals for a term of four years beginning January 1, 1910, and also for a one-year term are desired. Blanks for proposals, specifications and instructions to bidders will be furnished upon application to the Purchasing Agent, Postoffice Department, Washington, D. C. F. H. HITCHCOCK, Postmaster-General.

MACHINES FOR TABULATING AGRICULTURAL STATISTICS.—The Director of the Census is considering various types of machines with a view to determining the one best adapted for tabulating the agricultural statistics of the Thirteenth Census. Anyone possessing a machine adapted for this purpose is invited to present the same for test in practical operation at the Bureau of the Census, Washington, D. C., on or before July 1, 1998. For further information address E. DANA DURAND, Director of the Census, Department of Commerce and Labor, Washington, D. C.

SEALED PROPOSALS will be received at the office of the Director of the Census, Washington, D. C., until 2 o'clock P. M. August 9, 1909, and then publicly opened, for furnishing all the labor, materials and work necessary for the construction in lots of 60, 75, 100 or 125 tabulating machines and delivering the same complete, free of all charges for transportation, at the Census Building, Washington, D. C. The right is reserved to accept or reject any or all bids in whole or part, to strike out any item or items in the specifications, and to waive any defects. For specifications, bueprint drawings, blank proposals and full information address E. DANA DURAND, Director of the Census, Department of Commerce and Labor, Washington, D. C.

OFFICE OF CONSTRUCTING QUARTER master, U. S. Army, Baltimore, Md., July 27, 1809. Sealed proposals in triplicate will be received at this office until 16 o'clock A. M. August 27, 1809, and then opened, for the construction of about 15,000 square foof granolithic sidewalk at Fort Howard, Md. Pians and specifications may be seen at this office. Necessary blank forms and full information furnished upon application here. The United States reserves the right to reject any or all bids or to accept any part of a bid that may be advantageous to the Government. Envelopes containing proposals for Paving Cherry street from Glass Bayou to Finney street with Asphalt, Bitulithic, Mineral Rubber, Granitold, Vitrified Brick and Crossoted Wooden Blocks must be submitted in two forms, with and must be plainly indorsed "Proposals for Paving Cherry Street

Nayor's Office.

Vicksburg, Miss., July 23, 1909.

Scaled proposals for Paving Cherry street from Glass Bayou to Finney street with Asphalt, Bitulithic, Mineral Rubber, Granitold, Vitrified Brick and Crossoted Wooden Blocks must be submitted in two forms, with and without grading. Plans and specifications to be had on application to C. R. Twiss, City Engineer.

Board reserves the right to reject any or all bids.

J. J. HAYES, Mayor.

PORT MYER, VA., July 6, 1909. Sealed proposals in triplicate will be received at the Office of the Constructing Quartermaster until 11 o'clock A. M. August 4, 1909, and then opened: 1. For the construction of corral fences for two (2) artillery stables. 2. For the construction of corral fence for one (1) veterinary stable. Separate bid required on each item. Certified check or surety company's guarantee for ten per cent. of the amount must accompany the bid. Plans and specifications will be furnished on application. The Government reserves the right to reject any or all bids. Proposals should be indorsed "Proposals for Corral Fences" and addressed to CAPT. W. W. WHITSIDE, Constructing Quartermaster.

FORT MYER. VA., JULY 24, 1909. Sealed at the Office of the Constructing Quartermaster until 11 o'clock A. M. August 13, 1909, and then opened, for paving main passageways with vitrified brick, and concrete as an alternative, in four Cavalry Stables at Fort Myer, Va. Certified check or surety company's guarantee for ten per cent, of the amount must accompany each bid. Plans and specifications furnished upon application accompanied by a deposit of \$5 to insure safe return. The Government reserves the right to reject any or all bids. Proposals and envelopes should be marked "Proposals for Paving Cavalry Stables" and addressed to CAPTAIN W. W. WHITESIDE, Constructing Quartermaster.

NEW BOND OFFERINGS

School House Bonds For Sale

Fourteen thousand dollar forty year Anna Independent School District Schoolhouse Bonds, bearing interest at the rate of 6% per annum. Taxable values as follows: Personal property, \$36,055; real property, \$36,455; total, \$482,510. Said bonds dated September 1, 1909. Address

J. E. ADAMS, Secy. School Board, Anna, Texas.

\$27,000 West Point, Miss. **Bonds**

Bonds

Sealed bids will be received until 6 o'clock P. M. August 9, 1909, by J. L. Young, City Clerk, for the purchase of \$20,000 Street Graveling and Curbing Bonds, \$7000 Colored Schoolhouse Bonds, of the city of West Point, Mississippi. These bonds will be dated September 1, 1909, will bear interest at 5 per cent., payable in 20 years. Certified check for 10 per cent. of bonds must accompany each bid. The city reserves the right to reject any and all bids.

B. Y. RHODES, Mayor.

James County, Tenn., 5% 20-Year High-School Bonds

Scaled bids will be received up until noon August 23, '09, for ten thousand (\$10,000.00) dollars James County five per cent. twenty-year High-School Bonds. Said bids must be filed or mailed to T. H. Stokes, Sec. of Selling Com. marked bids for High-School bonds, Ooltewah, Tenn. Each bid must be accompanied by certified check for two hundred (\$200) dollars, as an evidence of good faith. The right is reserved to reject any and all bids. For further information apply to B. F. Davis, Chaim. of County Court, or the undersigned.

T. H. STOKES,

Ooltewah, Tenn.

STREET PAVING

Proposals for Graveling Streets

Sealed bids will be received until 6 o'clock P. M. August 9, 1909, by J. L. Young, City Clerk, for graveling the streets of the city of West Point, Miss., within the fire limits of the city and laying cement gutters also, according to plans and specifications on file in the City Clerk's office. Novaculite will be used for graveling. Cost, \$1.20 per ton f. o. b. West Point. Certified check for \$500 must accompany each bid The city reserves the right to reject any and all bids.

B. Y. RHODES,
Mayor.

J. J. HAYES, Mayor.

Street Paving

OFFICE OF THE BOARD OF CONTROL,

OFFICE OF THE BOARD OF CONTROL,

Norfolk, Va., July 10, 1909.

Sealed proposals will be received by the
Board of Control at its office in the city of
Norfolk, Va., until 12 o'clock A. M. on the 2d
day of August, 1909, for regulating and pavlng with some smooth material the following
streets and avenues in the said city, or parts
thereof: Colonial avenue, Pembroke avenue,
Warren Crescent, Bridge street, Botetourt
street, Twelfth street, Holt street, Redgate
avenue, Mowbray Arch east and Mowbray
Arch west.

Specifications with limits of streets to be
paved, instructions to bidders and approximate amounts of work required can be obtained on application to the City Engineer,
Norfolk, Va.

Bids must be made on forms attached to
the specifications separately for each street
or avenue, or for such of them as the bidder
may select, and all blanks in said bids must
be legibly filled.

Certified checks for ten per cent. of the
amount bid must accompany each separate
proposal, under the conditions set forth in
"Instructions to Bidders."

The right to reject any or all bids is reserved by the Board of Control.

THE BOARD OF CONTROL,

Norfolk, Va.

City Engineer.

W. T. BROOKE, City Engineer.

SEWERS

Sewer

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.

Sealed proposals for the construction of a sewer known as Section "B" of the Western Intercepter, Contract No. 49 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon August 6, 1999.

The work will consist mainly of building an unreinforced concrete sewer 3 ft, 6 in. and 5 ft. in diameter, total length about 4000 ft., and from 12 ft. to 25 ft. deep, and including about 1875 cu. yds. of concrete.

Plans and specifications may be seen at the office of the Commissioners, and at the office of the Commissioners, and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon street, Boston, Mass.

Sealed bids should be endorsed "Proposal for Section "B," Western Interceptor," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "bidder's bond," as described in the form of proposal.

CHAS. P. WEAVER, Secy. and Treas.

J. B. F. BREED, Chlef Engineer.

Proposals for Building Storm Sewers on Cherry Street

Mayor's Office.

Vicksburg, Miss., July 22, 1909.

Sealed proposals for building a storm sewer on Cherry street will be received by the Mayor and Aldermen on Monday evening. September 6, 1909, at 8 o'clock P. M. Plans and specifications to be had on application to C. R. Twiss, City Engineer. Board reserves the right to reject any or all bids.

J. J. HAYES,

Mayor.

MISCELLANEOUS

School Lands For Sale

Kent county of Texas will offer its 17,712 acres of land for sale August 9, 1909.
Proposals should be addressed to s should be addressed to J. B. JAY, County Judge, Clairemont, Texas.

Proposals for School Building

Sealed blds will be received up to August 20, 1909, for the erection of a brick school building for Murphy School District. For plans and specifications call on Cunningham Brothers, Architects, Greenville, S. C. Certified check for \$500 to accompany bld. Right reserved to reject any and all blds. For further particulars address A. A. Fain, Murphy, N. C.

Proposals for Laying Water Mains on Cherry Street

Vicksburg, Mss., July 23, 1909.
Vicksburg, Mss., July 23, 1909.
Sealed proposals for laying a water main on Cherry street will be received by the Mayor and Aldermen September 6, 1909, at 8 o'clock P. M. Plans and specifications to be had on application to C. R. Twiss, City Engineer. Board reserves the right to reject any or all bids.

J. J. HAYES, Mayor,

Proposals for Bridge

The Board of Commissioners of Buncombe County, N. C., will on Tuesday, August 17. 1808, receive proposals for the construction of a steel, concrete or combination bridge across the French Broad River at Asheville, N. C. Bids to be accompanied with plans and specifications. Bridge to be about 900 feet long, 23 feet in clear, 30 feet wide, besides 6-foot walkway. The Board reserves the right to reject any or all bids. By order

J. E. RANKIN, Ch'm.

J. E. RANKIN, Ch'm

Proposals for Excavating and Grubbing

Arcadla, Texas, July 20, 1909.

Scaled proposals, in duplicate, for excavating 450,000 cubic yards of material and clearing and grubbing 67 acres of bayou timber will be received until 3 P. M. Monday, August 30, 1909, and then publicly opened. Information furnished on application.

The Board of Commissioners, Galveston County Drainage District No. 1,

CAPT. B. E. JOHNSON, Secy.,

Arcadia, Texas.

R. W. LUTTRELL, Engineer,

Galveston, Texas.

Coal Supply Bids Wanted

City of New Bern, North Carolina, will receive until noon August 2, 1969, sealed bids for supplying, as needed, steaming coal for water and light plant for one year beginning September 1, 1969; estimated requirement, between 3000 and 4000 tons.

Bids must state grade, quality and trade name, price delivered f. o. b. on siding at water and light plant at New Bern. City to pay freight as delivered and pay balance on or before 15th of each month for deliveries of previous month.

f previous month.
Right reserved to reject any and all bids.
Address bids to
THOS. F. McCARTHY,
Chairman W. & L. Com.

60,000 Feet Concrete Side-

On Monday, August 2, 1909, the Board of Aldermen of the City of Goldsboro, North Carolina, will receive sealed bids for the making of about sixty thousand (60,000) square yards of Concrete Sidewalk. Work must be done according to plans and specifications, which will be furnished by City Clerk upon application.

The city reserves the right to reject any and all bids.

Bids must be filed with City Clerk on or before 12 o'clock M. Monday, August 2, 1909.

D. J. BROADHURST, City Clerk.

BONDS FOR SALE CITY OF CHATTANOOGA, TENNESSEE \$900,000 WATERWORKS BONDS

Sealed bids will be received until 3 o'clock P. M. on Friday, August 13, 1909, for nine hundred thirty-year 4½ per cent. semi-annual coupon bonds of the city of Chattanooga, Tennessee, for one thousand (\$1900) dollars each, dated July 1, 1909, principal and interest payable at the National City Bank, New York city.

Said issue of bonds will be denominated "Water-works Bonds of the City of Chattanooga of 1907," and are issued for the purpose of purchasing or erecting a system of water-works to supply water to the inhabitants of the city of Chattanooga and the environs or suburbs thereof.

Bids will be received for all of said issue only. All proposals must be accompanied by a certified check payable to the order of W. B. Cleage, City Treasurer, for one per cent. of the amount of the bonds bid for, the same to be forfeited if the bidder shall fail to accept and pay for bonds awarded. The right is reserved to reject any and all bids.

Address bids to W. R. CRABTREE, Mayor, Chattanooga, Tennessée.

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80	Monitor Stm. Gene'r Mtg. Co. 20 Moran Flexible Stm. Joint Co. 1	
67 69 67	Morris, Abbott & Co 76	1
28	Morse Twist Drill & Mach. Co. 4 Monse Twist Drill & Mach. Co. 4 Mundt & Sons, Chas. 9 Murphy Company, John. 112 Murray Iron Works Co. 5 Mach. Doc. 9	1
	Murphy Company, Jol n	
30	N.	
71 69 14	Nathan Mar Co	
17 10 82	National Can Co	1
112	National Exchange Bank of Baltimore Md., The 67 National File & To d Co	-
71 36	National Paint Works 40	ı
30 33	National Pipe Bending Co. 91 National Re ofine Co. 92 National Tube Co. 32 Naylor & Co., S. E. 88 New Albany Mfs. Co. 98 N. J. Car Spring & Rub. Co. 15 N. J. Wire Cloth Co. 98 Newmann Machine Co. 168 Newmann Machine & Metal Wks. 38	1
20	New Albany Mfg. Co	l
76 17	Newman Machine Co	-
5 38 18	New Orleans Robins and Washing & New York Cont. Jewe'l Fil. Co. 11	
97	Elevator Co	
11		
40	Nicholson File Co. 40 Nocenti Co., Michael 30 Noelke-Richards Iron Works 31 Nones, W. C. 71	
9 81 8	Noner, W. C. 71 Nordyke & Marmon Co. 90 Norfolk & Southern Rwy. Co. 107 Norfolk & Western Rv. 6	-
24 40 77		1
:	North Carol'na Gran te Corp 34 North Florida Lumber Co 83 Northampton Portland Cement Co 22	
36 ‡ 76	Co	-
23 34	Nuveen & Co., John	-
	Ober Mar Co 100	20 00 00
11 16 18	Ohio Elevator & Machine Co 16	20 00 00
19	Oliver Mfg. Co., The Wm. J 82 Otis Elevator Co	A 20 00
12	P	70.70.70.7
11 17 18	P. O. Box 6°, Plaquemine, La 78 P. O. Box 851, Charleston, S. C. 78 Page Woven Wire Fence Co 33	700 00 00
9	Parker, B. M	20 30 30
0 5	Paxson Co., J. W	60 00
8 7	Page Woven Wire Fence Co. 35 Parker, B. M	30 30 30 30
1 7 7	Penniman & Fairley 18	02.02.00
- 2	Pew, Arthur	00 00 00
6 7 9	Pfannmueller Eng. Co	88
5 5	Phillips, Wm. P	02 00 00 0
8	Pickering Governor Co	000000
	Pittsburg Pnoumatic Co., The 87 Plaster Products Co., The 85 Planter Products Co., The 85	000000
5	Phillips Pressed Steel Pulley Co. Phillips, A. L	00 00 00
	Poole Eng. & Mch. Co	80 80
	Potomac Dredging Co84	5555
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	CO. 99 Preacher & Holman 18 Price Machinery Co., S. M. 9 Pritchett Machinery Co. 77 Proutt, F. G. 18 Pulsometer Steam Pump Co. 160 Purcell, J. B. 76	S
	Purcell, J. B	Ti
	Quincy Show Case Works 68	Ti Ti
	Relaton C A 99	Ta Ta
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